KV-1432ME3
RM-623

SERVICE MANUAL

Chassis No. SCC-501B-A

XE-3 CHASSIS

SPECIFICATIONS

Television system	CCIR system B,G and H
Color system	PAL/SECAM/NTSC$_{4.43}$
Channel coverage	VHF channels E2 - E4 (Band I) VHF channels E5 - E12 (Band III) UHF channels E21 - E68 (Band U) (a total of up to 12 preselected channels)
Picture tube	36.8 cm, 90-degree deflection Trinitron system (33.7 cm screen measured diagonally)
Antenna	VHF/UHF telescopic antenna 75-ohm antenna socket for VHF/UHF
Hit (RF) socket	Auxiliary RF input for one channel VHF channels E2 - E12 UHF channels E21 - E68 75-ohm (coaxial type)
Speaker	9 × 5 cm
Audio output	1.5 W
Power requirements	110 - 240 V ac, 50/60 Hz
Power consumption	58 W 15 W (in standby condition)
Dimensions	Approx. 392 × 355 × 412 mm (w/h/d)
Weight	Approx. 11.4 kg

MICROFILM

TRINITRON® COLOR TV

SONY®

CTV

WARNING !!

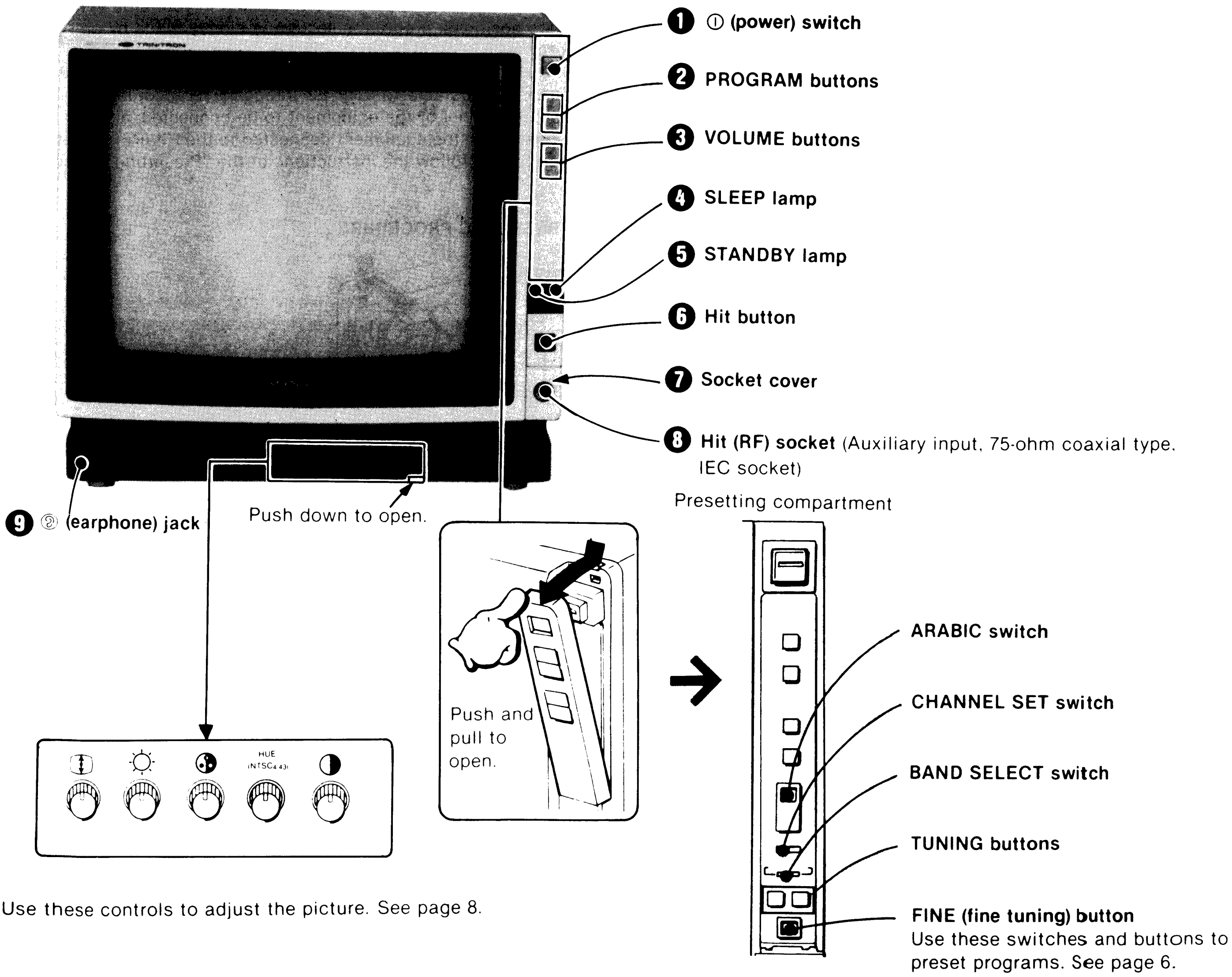
AN ISOLATION TRANSFORMER SHOULD BE USED DURING ANY SERVICE TO AVOID POSSIBLE SHOCK HAZARD, BECAUSE OF LIVE CHASSIS.
THE CHASSIS OF THIS RECEIVER IS DIRECTLY CONNECTED TO THE AC POWER LINE.

SAFETY-RELATED COMPONENT WARNING !!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN. THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY. CIRCUIT ADJUSTMENTS THAT ARE CRITICAL TO SAFE OPERATION ARE IDENTIFIED IN THIS MANUAL. FOLLOW THESE PROCEDURES WHENEVER CRITICAL COMPONENTS ARE REPLACED OR IMPROPER OPERATION IS SUSPECTED.

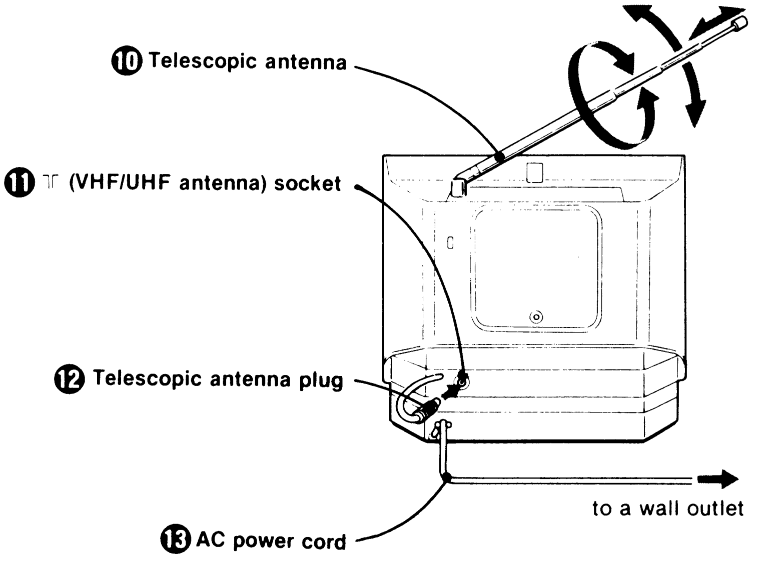
SECTION 1
OUTLINE

1-1. LOCATION AND FUNCTION OF CONTROLS


❶ ⏻ (power) switch
❷ PROGRAM buttons
❸ VOLUME buttons
❹ SLEEP lamp
❺ STANDBY lamp
❻ Hit button
❼ Socket cover
❽ Hit (RF) socket (Auxiliary input, 75-ohm coaxial type, IEC socket)
❾ 🎧 (earphone) jack
Push down to open.
Push and pull to open.
HUE (NTSC4.43)
Presetting compartment
ARABIC switch
CHANNEL SET switch
BAND SELECT switch
TUNING buttons
FINE (fine tuning) button

Use these controls to adjust the picture. See page 8.

Use these switches and buttons to preset programs. See page 6.


❿ Telescopic antenna
⓫ T (VHF/UHF antenna) socket
⓬ Telescopic antenna plug
⓭ AC power cord
to a wall outlet

❶ ⏻ (power) switch
Depress to turn on the TV. Press again to turn it off.

❷ PROGRAM buttons
Press to select a preset program (from positions 1 through 12). Press + for higher-numbered programs, and – for lower-numbered programs.

❸ VOLUME buttons
Press + to increase the volume and – to decrease it.

❹ SLEEP lamp
Lights steadily until the TV will be automatically turned off when you press the SLEEP button on the Remote Commander.

❺ STANDBY lamp
Blinks when any function button on the Remote Commander is pressed. Blinks also during adjustment of the volume. At the lowest or the highest volume this lamp lights steadily.

❻ Hit button
To view the signal from the Hit (RF) socket, press this button. The indication "**Hit**" will light. To adjust the Hit button to match the equipment to be connected, use the switches and buttons in the presetting compartment. For the presetting procedure, see the "Program presetting" on this page.

❼ Socket cover
Remove this cover so that the connector fits firmly, if required.

❽ Hit (RF) socket (Auxiliary input, 75-ohm coaxial type, IEC socket)
Connect an RF (antenna) output of a home video game, a microcomputer, or a portable video tape recorder to this socket.

❾ ◎ (earphone) jack
Connect the supplied earphone here for private listening. This disconnects the loudspeaker. Adjust the TV volume to a proper listening level.

❿ Telescopic antenna
For optimum VHF and UHF reception, use this antenna. Adjust the length, direction and angle for the best possible picture.

⓫ ⫪ (VHF/UHF antenna) socket
Connect the telescopic antenna here.
If you use an external antenna, connect it here.

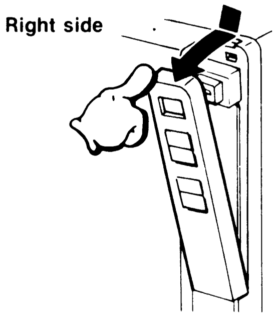
⓬ Telescopic antenna plug
Plug into the ⫪ socket.

⓭ AC power cord
Connect to a 110 – 240 V wall outlet.
Use the commercially available power cord plug adaptor, if required.

1-2. PROGRAM PRESETTING

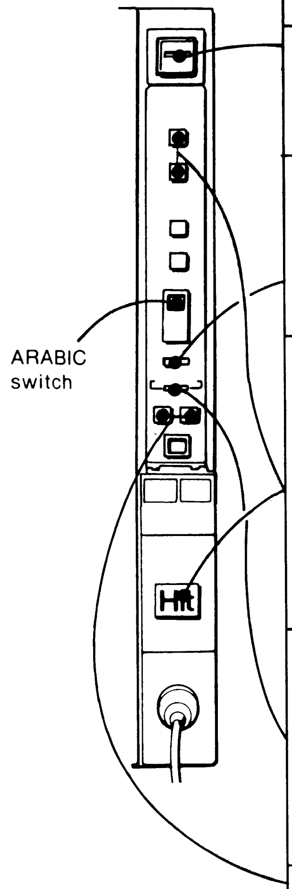
Once you preset the programs broadcast in your area in the 12 program positions, program selection is simply made by pressing the + or – PROGRAM button.
The Hit button has been facrtory-preadjusted to receive UHF frequency. Adjustable to VHF E2 through E12 accordance to the RF output channel of the equipment to be connected, also. To display signals from the equipment connected to the Hit (RF) socket on the front panel, follow the instructions of the "Presetting procedure."

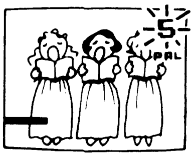
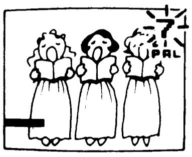
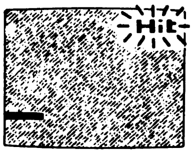
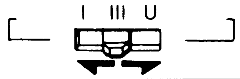
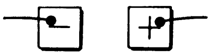
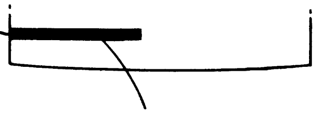
PRESETTING PROCEDURE



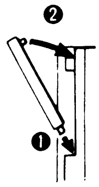
Remove the lid and expose the switches and buttons.

Presetting compartment



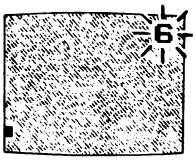
	PROGRAM buttons	Hit button
1	Press the ⏻ switch.	
		Turn on the equipment connected to the Hit (RF) socket. (If it is a VTR, play back a prerecorded tape.)
2	Set the CHANNEL SET switch to ON. The previously selected program number blinks and the bar indication and the color system indication appear on the screen.  	
3	Select the program position to be preset with the PROGRAM buttons. The selected program number is now blinking and the color system indication lights steadily.  	Press the Hit button. The Hit indication is now blinking. 
4	Set the BAND SELECT switch to one of these three positions : VHF channels E2 to E4 ... Set to I. VHF channels E5 to E12 ... Set to III. UHF channels E21 to E68 ... Set to U. BAND SELECT  	
5	Keep the + or – TUNING button pressed until...	
	the clear picture of the desired station is obtained.	the signals fed from the Hit (RF) socket are properly tuned in.
	TUNING for lower-numbered channels  for higher-numbered channels The length of the bar provides a visual indication of the approximate location you tuned to within the selected band. Lower-numbered channels  Higher-numbered channels Band I..............E2 ←——→ E4 Band III............E5 ←——→ E12 Band U............E21 ←——→ E68 The STANDBY lamp that has been blinking will light steadily when the highest-or the lowest-numbered channel within the present band is tuned in.	
6	Repeat steps **3** through **5** for all the program positions to be preset.	
	Set the CHANNEL SET switch to OFF.	

After presetting, align ❶ and close the lid ❷.



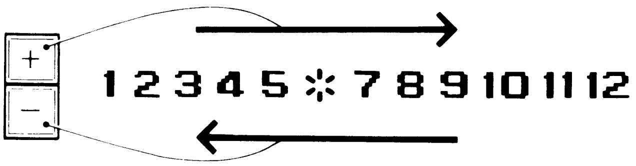
TO ERASE THE MEMORY ON THE SELECTED PROGRAM POSITION

Keep the – TUNING button pressed in step **5** in the "Presetting procedure" regardless of the setting of the BAND SELECT switch, until the STANDBY lamp lights steadily and sound is muted. You can skip any unused program position and reach the desired program quickly.



To check the result of the erasure

Press the + or – PROGRAM button.



To preset another program in the position you have once erased again

Follow the "Presetting procedure"

USE OF THE ARABIC SWITCH

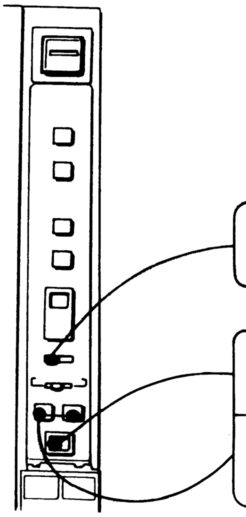
Press the ARABIC switch to change the program number display into Arabic. Press this switch again, and the previous number will be displayed.

NOTE

The ARABIC switch is not operable while the signals from the Hit (RF) socket are being viewed.

FINE TUNING

In case of extreme interference, or of an extremely weak station, fine-tune manually as follows.



1 Check that the CHANNEL SET switch is set to OFF.

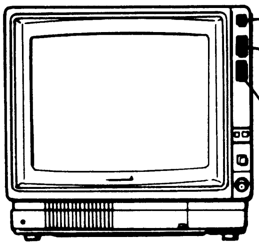
2 Keep the FINE button pressed.....

3 and press the + or – TUNING button until a clear picture is obtained.

4 When the fine-tuning with the TUNING buttons is completed, release the FINE button.

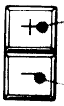
If there is any other weak station, select the program to be fine-tuned and repeat steps **2** through **4**.

1-3. NORMAL TV OPERATION



1 **Depress the Ⓘ switch.**
The picture will appear.

2 **Select the desired TV program by pressing the + or – PROGRAM button.**

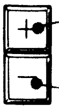


for higher-numbered programs

for lower-numbered programs

The selected program number and color system appear on the screen.
The color system indication disappears in a few seconds. To extinguish the program number, press the DISPLAY button on the Remote Commander. Then, each time you press the PROGRAM button to change the program, the indications on the screen will disappear in a few seconds.

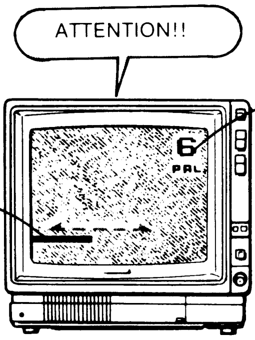
3 **Adjust the volume by pressing the + or – VOLUME button.**



to increase the volume

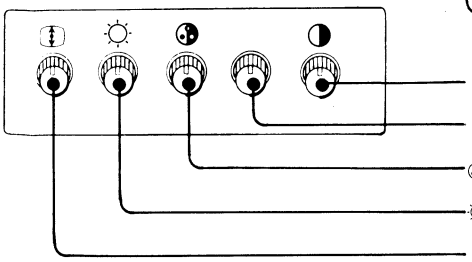
to decrease the volume

The bar indication will appear on the screen. As the volume increases, the bar will be longer. This indication will disappear in a few seconds after the adjustment is completed.



To turn the TV off, press the Ⓘ switch.

behind panel



◑ (picture) control

HUE control

◕ (color) control

☼ (brightness) control

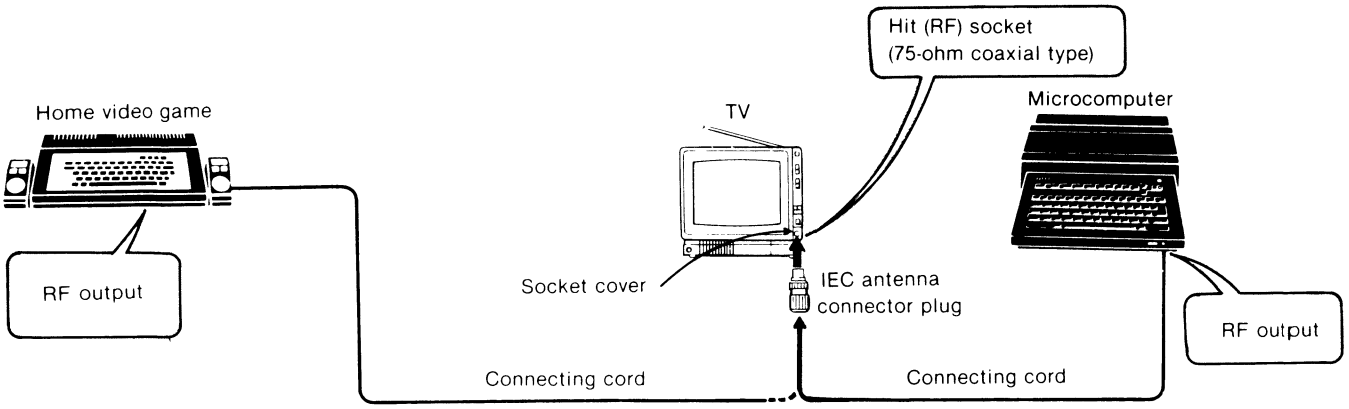
↕ (vertical) control

1-4. FRONT PANEL HIT (RF) SOCKET USAGE

What is the Hit socket?
The "Hit" is an abbreviation of Home Interface Terminal.
Hit (RF) socket is an auxiliary input which may be used for the easy connection to a home video game, a microcomputer, or a portable VTR. To view the picture of the connected equipment, simply press the adjusted Hit button. You can enjoy the TV set as a display terminal for the connected equipment.

Caution
Unplug the TV and other equipment from the wall outlet before making the connections.

CONNECTION OF A HOME VIDEO GAME OR MICROCOMPUTER

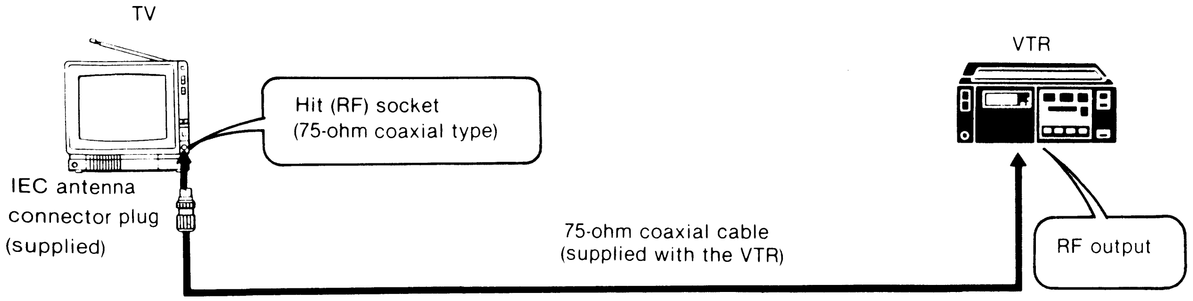

Hit (RF) socket
(75-ohm coaxial type)
Home video game
TV
Microcomputer
RF output
Socket cover
IEC antenna
connector plug
RF output
Connecting cord
Connecting cord

In case that the connecting cord has exposed wires rather than a plug, attach the supplied (or commercially available) connector plug. For details on the connection, refer to the instructions of the home video game or the microcomputer.

NOTES

- The Hit (RF) socket is available for equipment that can deliver signal of VHF channels E2 through E12 and UHF channels E21 through E68.
- If the microcomputer has been placed on or too close to the TV set, noise will appear on the screen. Keep the microcomputer an appropriate distance away so that the picture appears clear.
- The connection of a microcomputer sometimes causes distorted and noisy pictures. In this case, readjust the controls located in the front panel. When you go back to watching a TV program, adjust the controls again.
- When you go back to watching a TV program, press the Hit button first and then the PROGRAM button to select the program you want to watch. If the picture is distorted, turn off the connected equipment.
- The picture quality obtained by connection to the Hit (RF) socket on the front of the TV and to the antenna socket on the back is almost the same.
- While watching the TV, when the frequency of equipment connected to the Hit (RF) socket is too close to TV broadcasting frequency, interference will occur. In this case, readjust the equipment's output frequency.
- If the connector does not fit the Hit (RF) socket well, remove the socket cover.

CONNECTION OF A PORTABLE VTR


TV
VTR
Hit (RF) socket
(75-ohm coaxial type)
IEC antenna
connector plug
(supplied)
75-ohm coaxial cable
(supplied with the VTR)
RF output

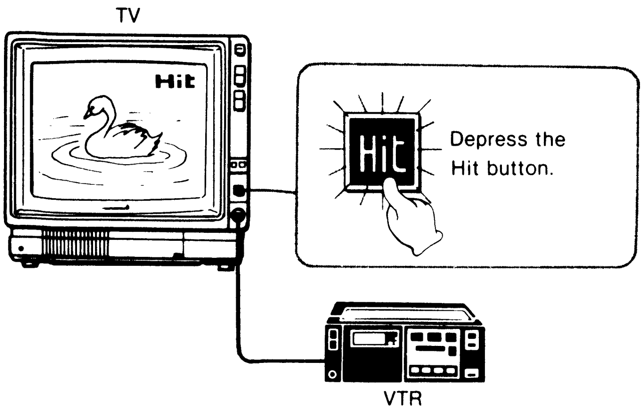
To record the TV program, connect the tuner timer unit (optional) to the antenna socket on the TV's back panel. For details on the connection, refer to the instructions of the portable VTR or the tuner timer unit.

- Keep the VTR away from the TV, if the display or sound is affected.

TO DISPLAY PICTURES FED THROUGH THE CONNECTED EQUIPMENT

Simply depress the Hit button. The Hit button has been preadjusted to receive UHF frequency. It is necessary to reset the channel in accordance to the RF output of equipment to be connected. To readjust the channel, follow the instructions described in the "Presetting procedure" on page 4.

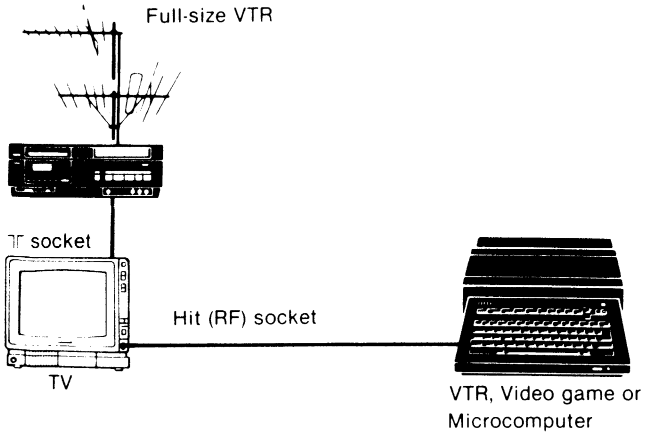
You can enjoy the pictures of a home video game or microcomputer which is connected to the Hit (RF) socket on the front panel, or can enjoy the pictures of a portable VTR.


TV
Hit
Hit
Depress the Hit button.
VTR

When you want to watch TV programs press the Hit button first and then the PROGRAM buttons.

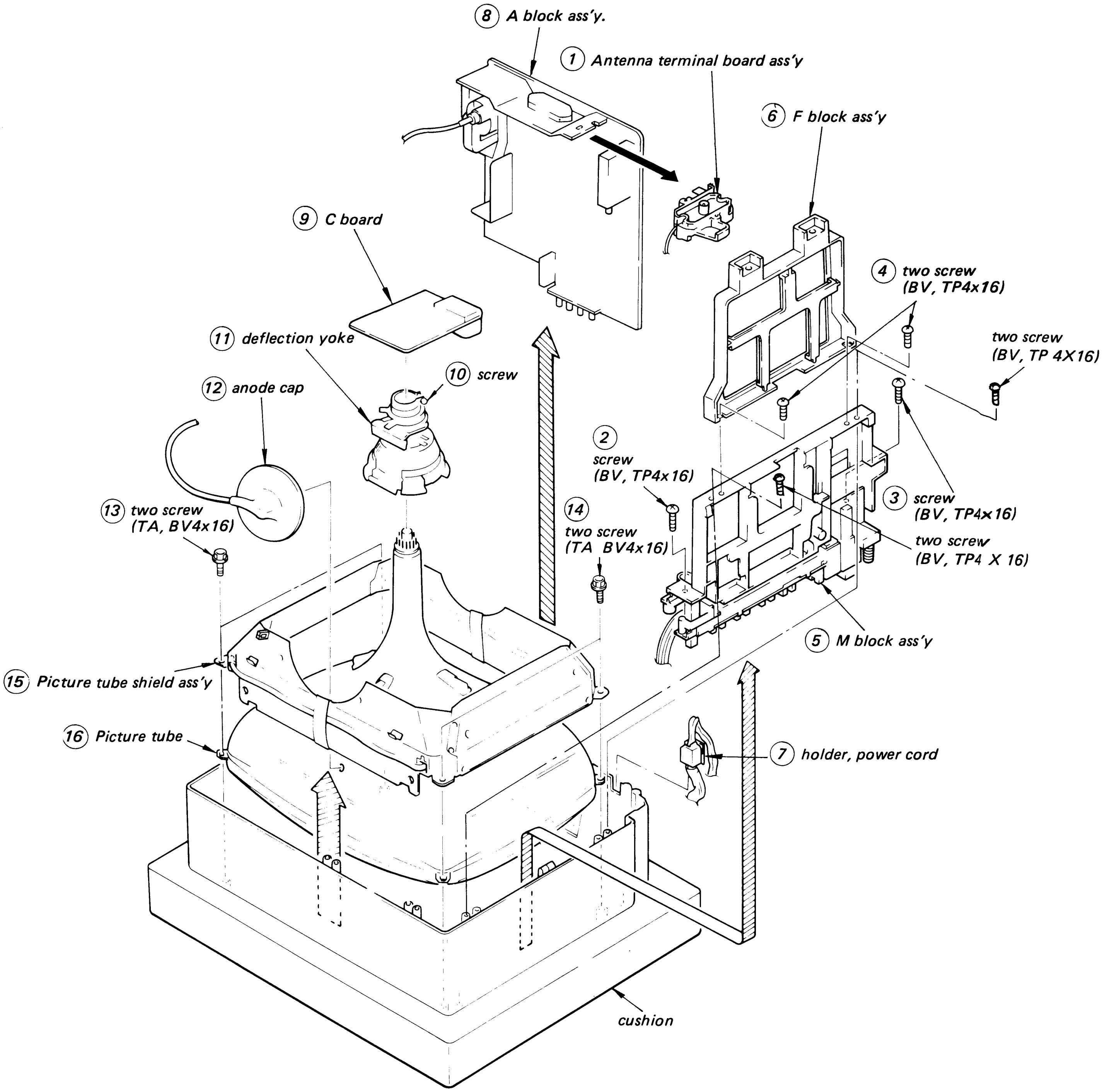
CONNECTION OF A FULL-SIZE VTR

Connect a VTR to the antenna socket on the TV's back, and connect the outdoor antenna to the VTR. For details on the connections, see the instructions of the VTR.

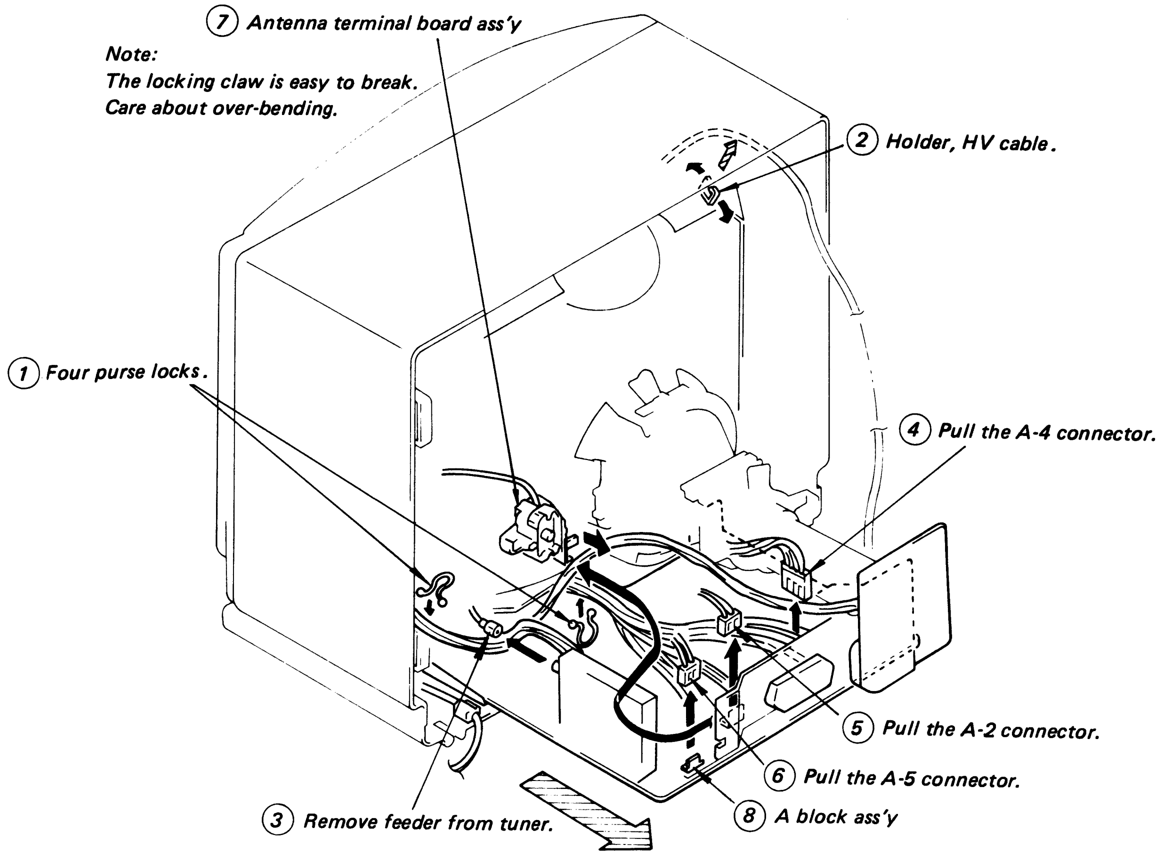

Full-size VTR
ℸΓ socket
Hit (RF) socket
TV
VTR, Video game or Microcomputer

SECTION 2
DISASSEMBLY

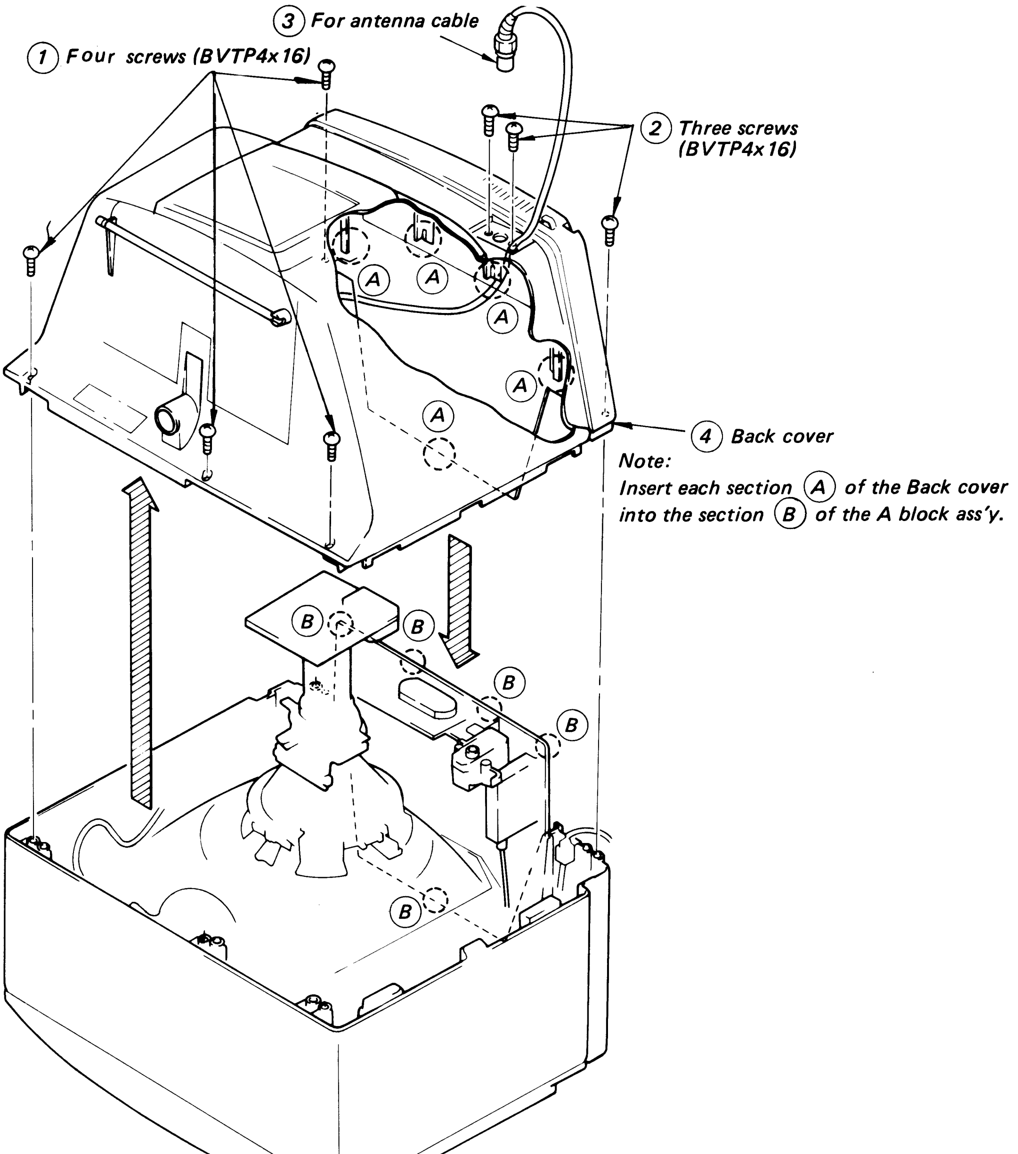
2-1. PICTURE TUBE REMOVAL


⑧ A block ass'y.
① Antenna terminal board ass'y
⑥ F block ass'y
⑨ C board
④ two screw (BV, TP4x16)
two screw (BV, TP 4X16)
⑪ deflection yoke
⑩ screw
⑫ anode cap
② screw (BV, TP4x16)
⑬ two screw (TA, BV4x16)
⑭ two screw (TA BV4x16)
③ screw (BV, TP4x16)
two screw (BV, TP4 X 16)
⑤ M block ass'y
⑮ Picture tube shield ass'y
⑯ Picture tube
⑦ holder, power cord
cushion

2-2. A BOARD REMOVAL


⑦ Antenna terminal board ass'y
Note:
The locking claw is easy to break.
Care about over-bending.
② Holder, HV cable.
① Four purse locks.
④ Pull the A-4 connector.
⑤ Pull the A-2 connector.
⑥ Pull the A-5 connector.
⑧ A block ass'y
③ Remove feeder from tuner.

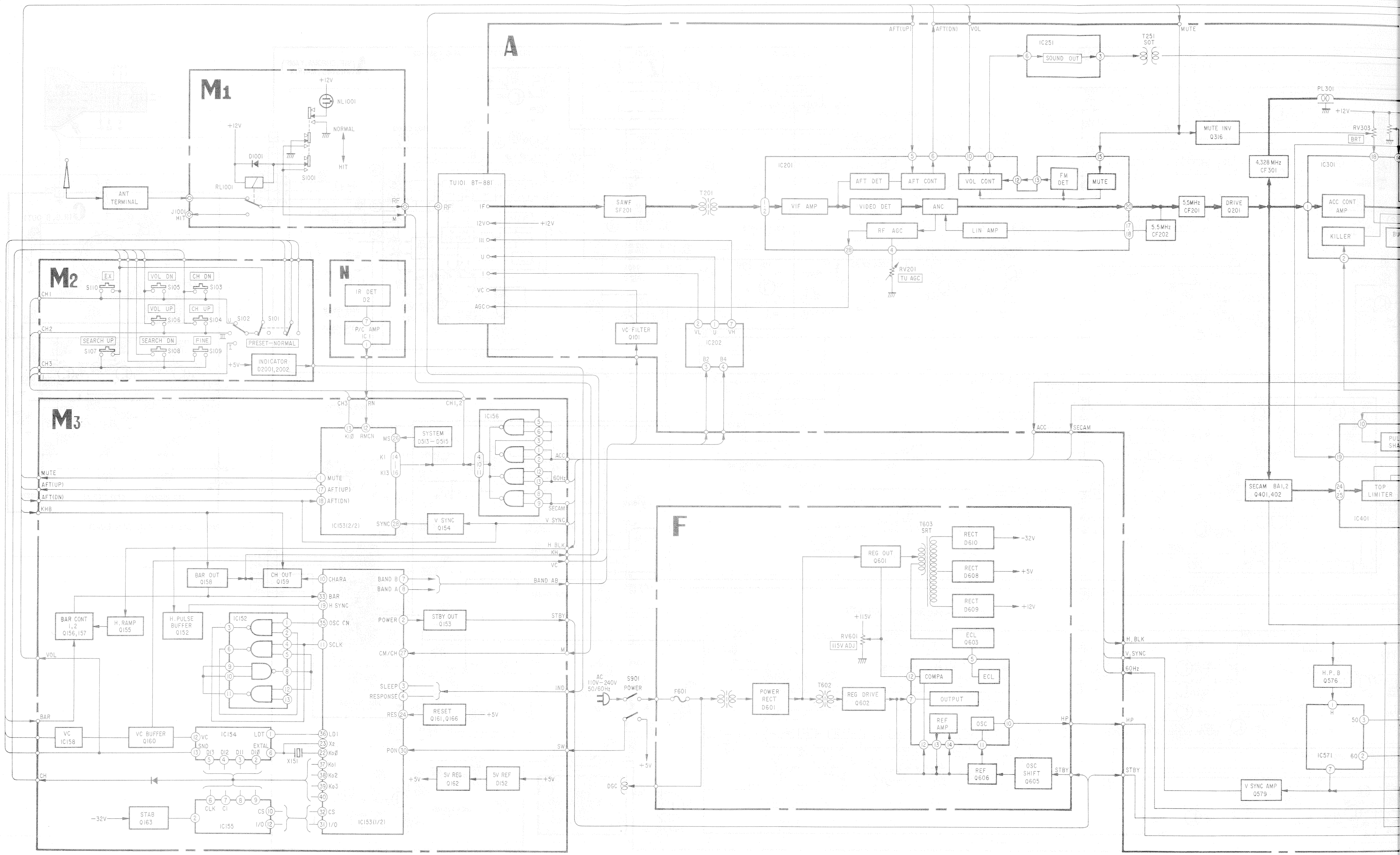
2-3. BACK COVER REMOVAL


③ For antenna cable
① Four screws (BVTP4x16)
② Three screws (BVTP4x16)
④ Back cover
A
B

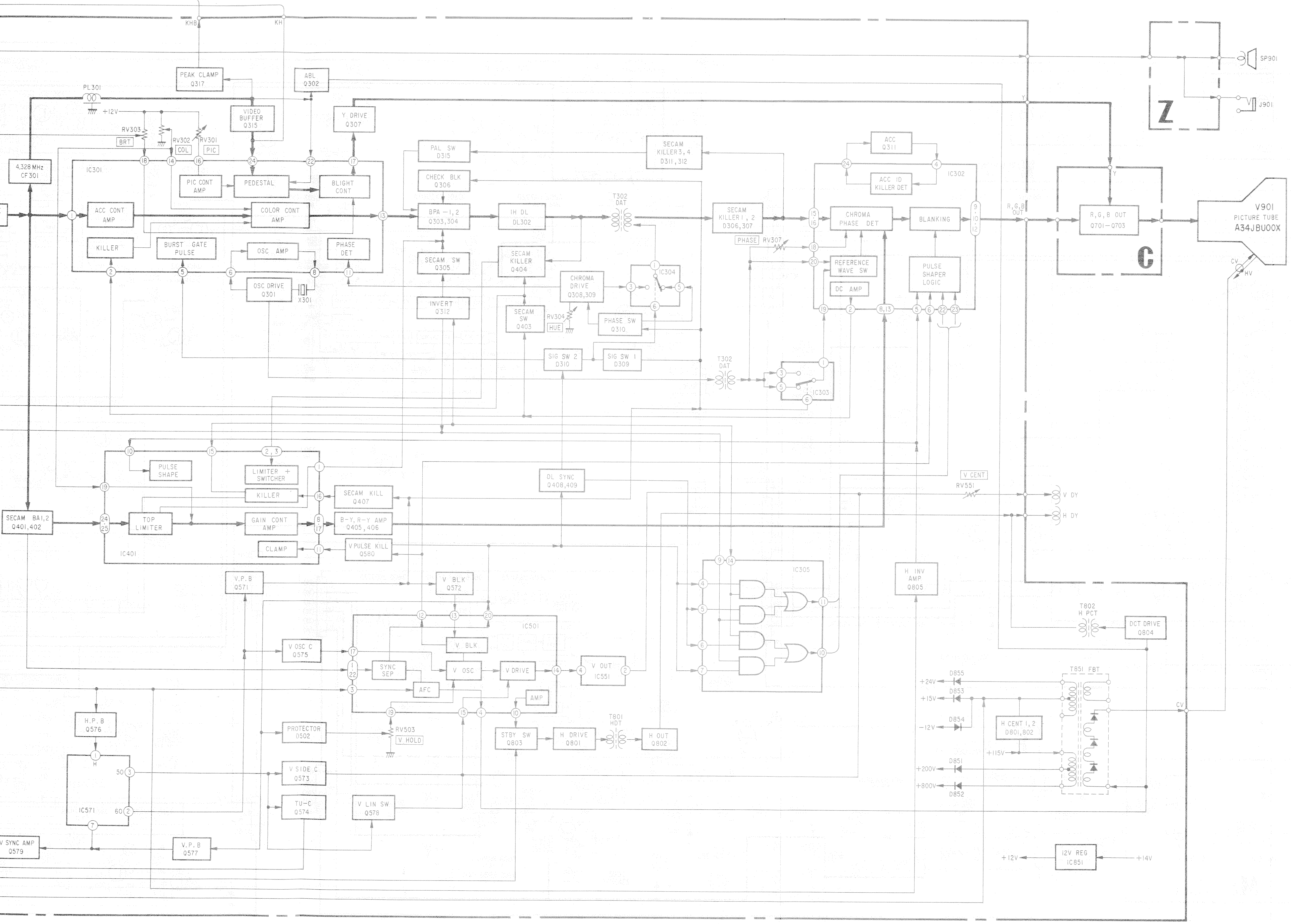
Note:
Insert each section Ⓐ of the Back cover into the section Ⓑ of the A block ass'y.

SECTION 3
DIAGRAMS

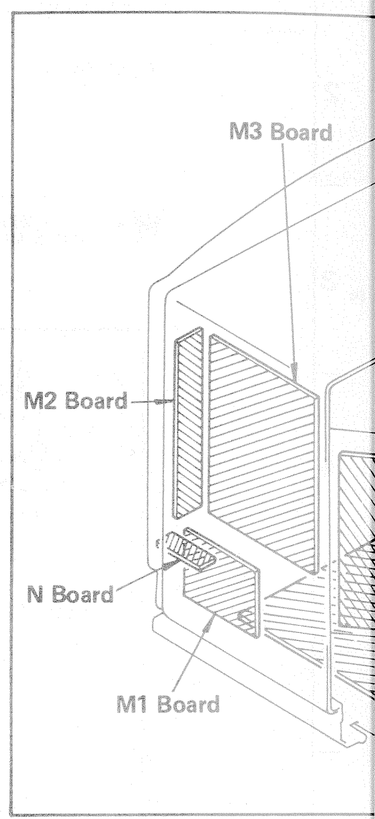
3-1. BLOCK DIAGRAM

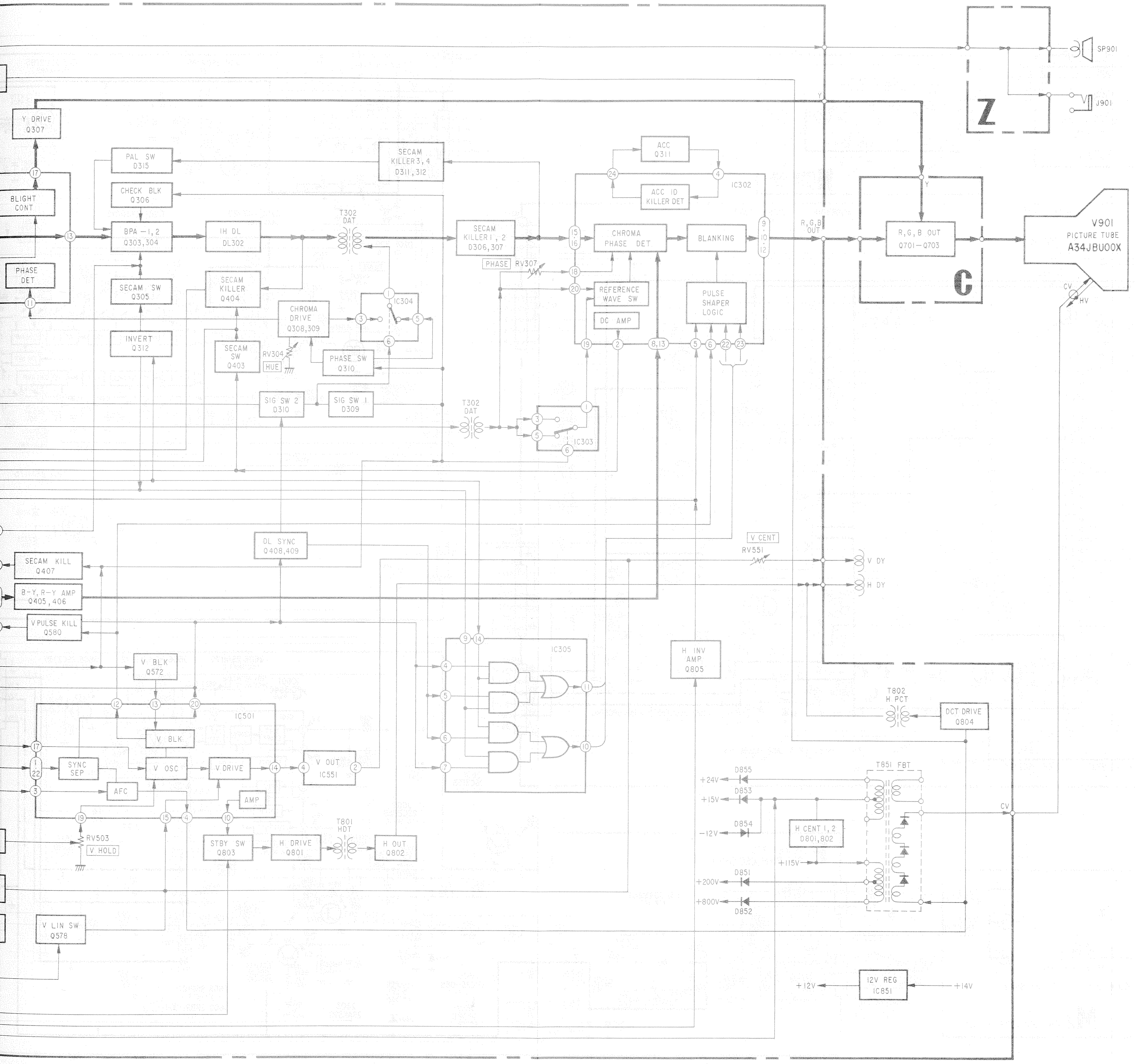


M1
+12V
NL1001
NORMAL
HIT
D1001
RL1001
S1001
ANT TERMINAL
J1001 HIT
RF
M
A
TU101 BT-881
IF
12V
III
U
I
VC
AGC
+12V
SAWF SF201
T201
VIF AMP
VIDEO DET
AFT DET
AFT CONT
ANC
RF AGC
LIN AMP
VOL CONT
FM DET
MUTE
IC201
IC251
SOUND OUT
T251 SOT
AFT(UP)
AFT(DN)
VOL
MUTE
RV201
TU AGC
VC FILTER Q101
IC202
VL
VH
B2
B4
5.5MHz CF201
5.5MHz CF202
DRIVE Q201
MUTE INV Q316
PL301
RV303
BRT
4.326 MHz CF301
IC301
ACC CONT AMP
KILLER
SECAM BA1,2 Q401,402
TOP LIMITER
IC401
ACC
SECAM
M2
EX
S110
VOL DN
S105
CH DN
S103
VOL UP
S106
CH UP
S104
S102
S101
PRESET—NORMAL
SEARCH UP
S107
SEARCH DN
S108
FINE
S109
INDICATOR D2001,2002
+5V
CH1
CH2
CH3
N
IR DET D2
P/C AMP IC1
M3
CH3
RN
CH1,2
KIØ
RMCN
MS
SYSTEM D513—D515
KI
K13
IC156
MUTE
AFT(UP)
AFT(DN)
KHB
IC153(2/2)
SYNC
V SYNC Q154
60Hz
V SYNC
H BLK
KH
VC
BAND AB
BAR OUT Q158
CH OUT Q159
CHARA
BAR
H SYNC
OSC CN
SCLK
BAND B
BAND A
POWER
STBY OUT Q153
STBY
BAR CONT 1,2 Q156,157
H. RAMP Q155
H. PULSE BUFFER Q152
IC152
CM/CH
SLEEP
RESPONSE
IND
RES
RESET Q161,Q166
+5V
VC IC158
VC BUFFER Q160
IC154
LDT
EXTAL
SND
DI3
DI2
DI1
DIØ
X151
LDI
X2
KoØ
Ko1
Ko2
Ko3
PON
SW
5V REG Q162
5V REF D152
CH
BAR
VOL
-32V
STAB Q163
IC155
CLK
CI
CS
I/O
IC153(1/2)
F
AC 110V—240V 50/60Hz
S901 POWER
F601
POWER RECT D601
T602
REG DRIVE Q602
REG OUT Q601
T603 SRT
RECT D610
-32V
RECT D608
+5V
RECT D609
+12V
ECL Q603
+115V
RV601
115V ADJ
COMPA
ECL
OUTPUT
REF AMP
OSC
REF Q606
OSC SHIFT Q605
STBY
DGC
+5V
H. BLK
V. SYNC
60Hz
HP
STBY
H.P.B Q576
IC571
V SYNC AMP Q579


KHB
KH
PEAK CLAMP Q317
ABL Q302
PL301
+12V
RV303
BRT
RV302
COL
RV301
PIC
VIDEO BUFFER Q315
Y DRIVE Q307
4.328 MHz CF301
IC301
PIC CONT AMP
PEDESTAL
BLIGHT CONT
ACC CONT AMP
COLOR CONT AMP
KILLER
BURST GATE PULSE
OSC AMP
PHASE DET
OSC DRIVE Q301
X301
PAL SW Q315
CHECK BLK Q306
BPA-1, 2 Q303, 304
1H DL DL302
T302 DAT
SECAM SW Q305
SECAM KILLER Q404
INVERT Q312
SECAM SW Q403
RV304
HUE
CHROMA DRIVE Q308, 309
IC304
PHASE SW Q310
SIG SW 2 D310
SIG SW 1 D309
SECAM KILLER 3, 4 D311, 312
SECAM KILLER 1, 2 D306, 307
PHASE
RV307
T302 DAT
IC303
ACC Q311
ACC ID KILLER DET
IC302
CHROMA PHASE DET
BLANKING
REFERENCE WAVE SW
DC AMP
PULSE SHAPER LOGIC
R, G, B OUT
Y
R, G, B OUT Q701–Q703
Z
C
SP901
J901
V901 PICTURE TUBE A34JBU00X
CV
HV
PULSE SHAPE
LIMITER + SWITCHER
KILLER
SECAM KILL Q407
SECAM BA1, 2 Q401, 402
TOP LIMITER
GAIN CONT AMP
B-Y, R-Y AMP Q405, 406
CLAMP
V PULSE KILL Q580
IC401
DL SYNC Q408, 409
V CENT
RV551
V DY
H DY
V.P.B Q571
V BLK Q572
IC501
V BLK
V OSC C Q575
SYNC SEP
V OSC
V DRIVE
V OUT IC551
AFC
AMP
IC305
H INV AMP Q805
T802 H PCT
DCT DRIVE Q804
H.P.B Q576
PROTECTOR Q502
RV503
V HOLD
STBY SW Q803
H DRIVE Q801
T801 HDT
H OUT Q802
T851 FBT
D855 +24V
D853 +15V
D854 −12V
H CENT 1, 2 Q801, 802
+115V
D851 +200V
+800V D852
IC571
V SIDE C Q573
TU-C Q574
V LIN SW Q578
V SYNC AMP Q579
V.P.B Q577
+12V
12V REG IC851
+14V

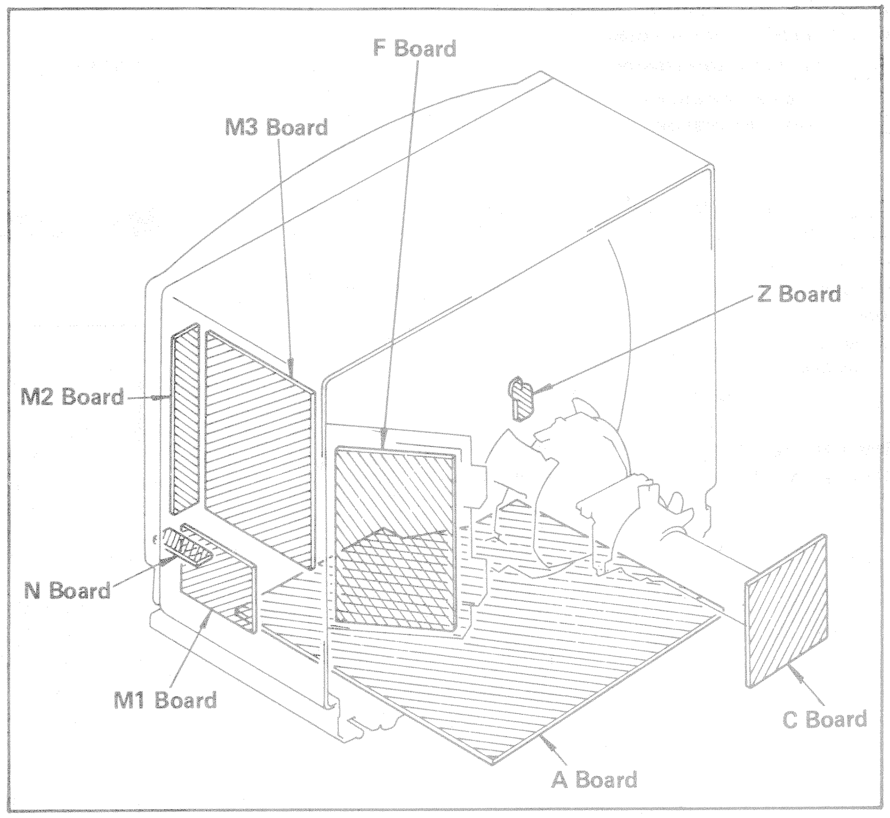
3-2. CIRCUIT BOARDS LO


M3 Board
M2 Board
N Board
M1 Board



Y DRIVE Q307
BLIGHT CONT
PHASE DET
PAL SW D315
CHECK BLK Q306
BPA-1, 2 Q303, 304
SECAM SW Q305
INVERT Q312
1H DL DL302
SECAM KILLER Q404
SECAM SW Q403
CHROMA DRIVE Q308, 309
RV304
HUE
T302 DAT
IC304
PHASE SW Q310
SIG SW 2 Q310
SIG SW 1 D309
SECAM KILLER 3, 4 D311, 312
SECAM KILLER 1, 2 D306, 307
PHASE
RV307
T302 DAT
IC303
ACC Q311
ACC ID KILLER DET
IC302
CHROMA PHASE DET
REFERENCE WAVE SW
DC AMP
BLANKING
PULSE SHAPER LOGIC
R, G, B OUT
Y
R, G, B OUT Q701–Q703
C
Z
SP901
J901
V901 PICTURE TUBE A34JBU00X
CV
HV
DL SYNC Q408, 409
SECAM KILL Q407
B-Y, R-Y AMP Q405, 406
V PULSE KILL Q580
V BLK Q572
IC501
V BLK
SYNC SEP
V OSC
V DRIVE
AFC
AMP
V OUT IC551
RV503
V HOLD
STBY SW Q803
H DRIVE Q801
T801 HDT
H OUT Q802
V LIN SW Q578
IC305
H INV AMP Q805
V CENT
RV551
V DY
H DY
T802 H PCT
DCT DRIVE Q804
T851 FBT
D855
+24V
D853
+15V
D854
−12V
H CENT 1, 2 D801, 802
+115V
D851
+200V
+800V
D852
CV
12V REG IC851
+12V
+14V

3-2. CIRCUIT BOARDS LOCATION

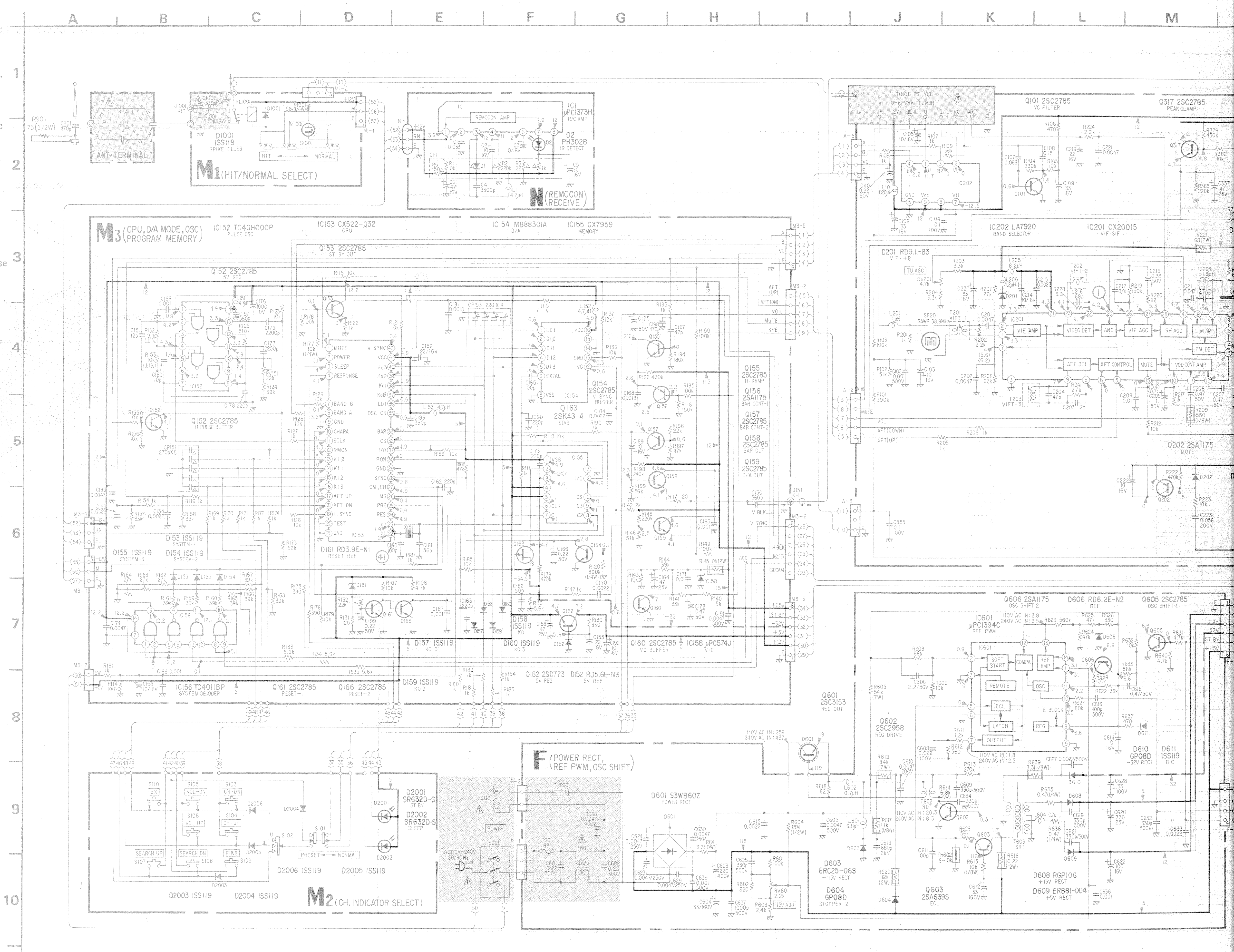


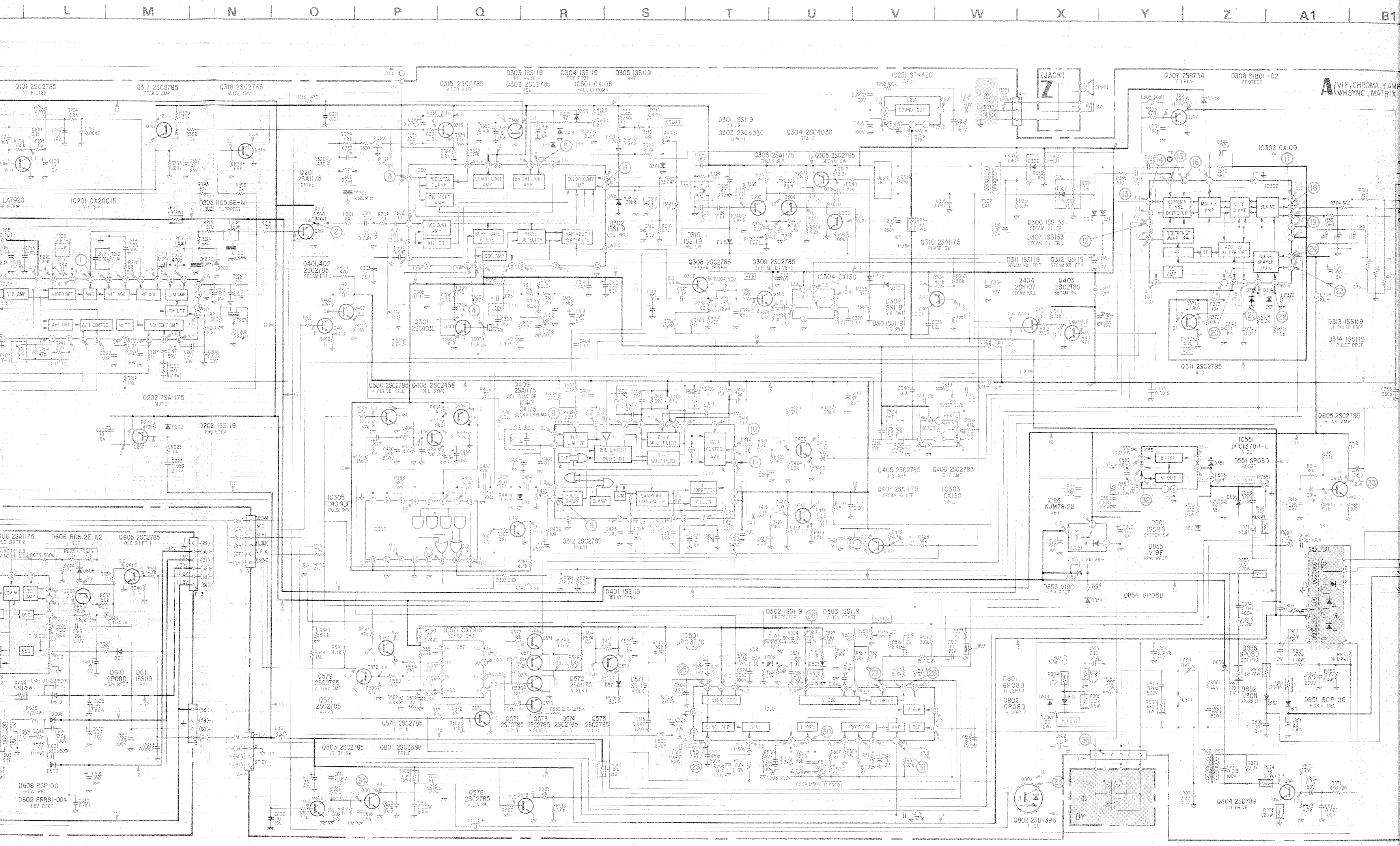
F Board
M3 Board
Z Board
M2 Board
N Board
M1 Board
C Board
A Board

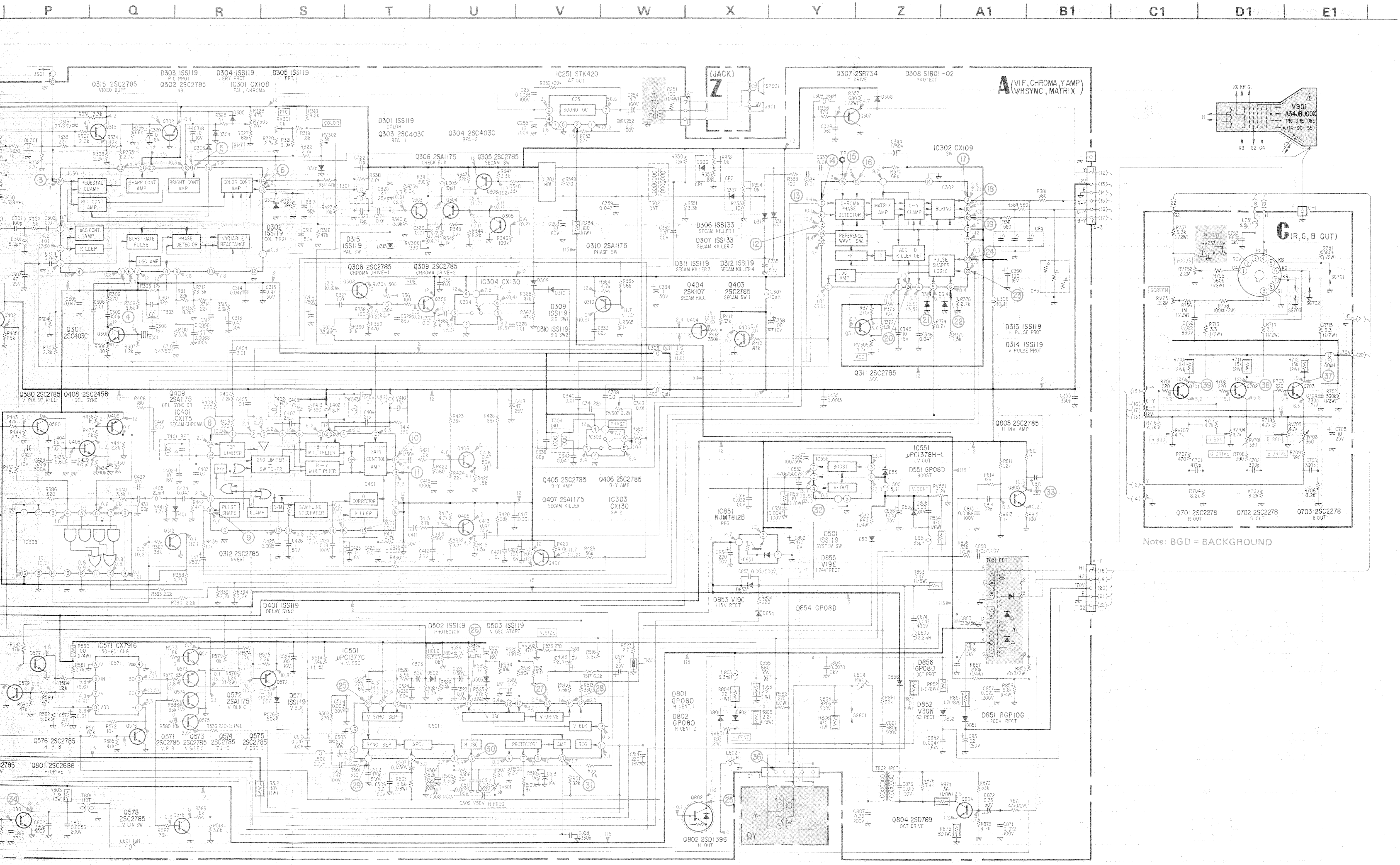
Note:

- All capacitors are in μF unless otherwise noted.
  50WV or less are not indicated except for electrolytics.
  p : μμF
- All resistors are in ohms. $^1/_6$ W unless otherwise noted.
  kΩ : 1000Ω, MΩ : 1000 kΩ
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- ▭ : nonflammable resistor.
- △ : internal component.
- ▭ : panel designation.

- ▭ : adjustment for repair.
- ——— : B+ bus.
- – – – : B- bus.
- Voltages are dc with respect to graound unless otherwise noted.
- All voltage are in V.
  No Mark : PAL
  ( ) : SECAM
  < > : NTSC 4.43
- Readings are taken with a 10 MΩ digital multimeter.
- Readings are taken with a color-bar signal input.

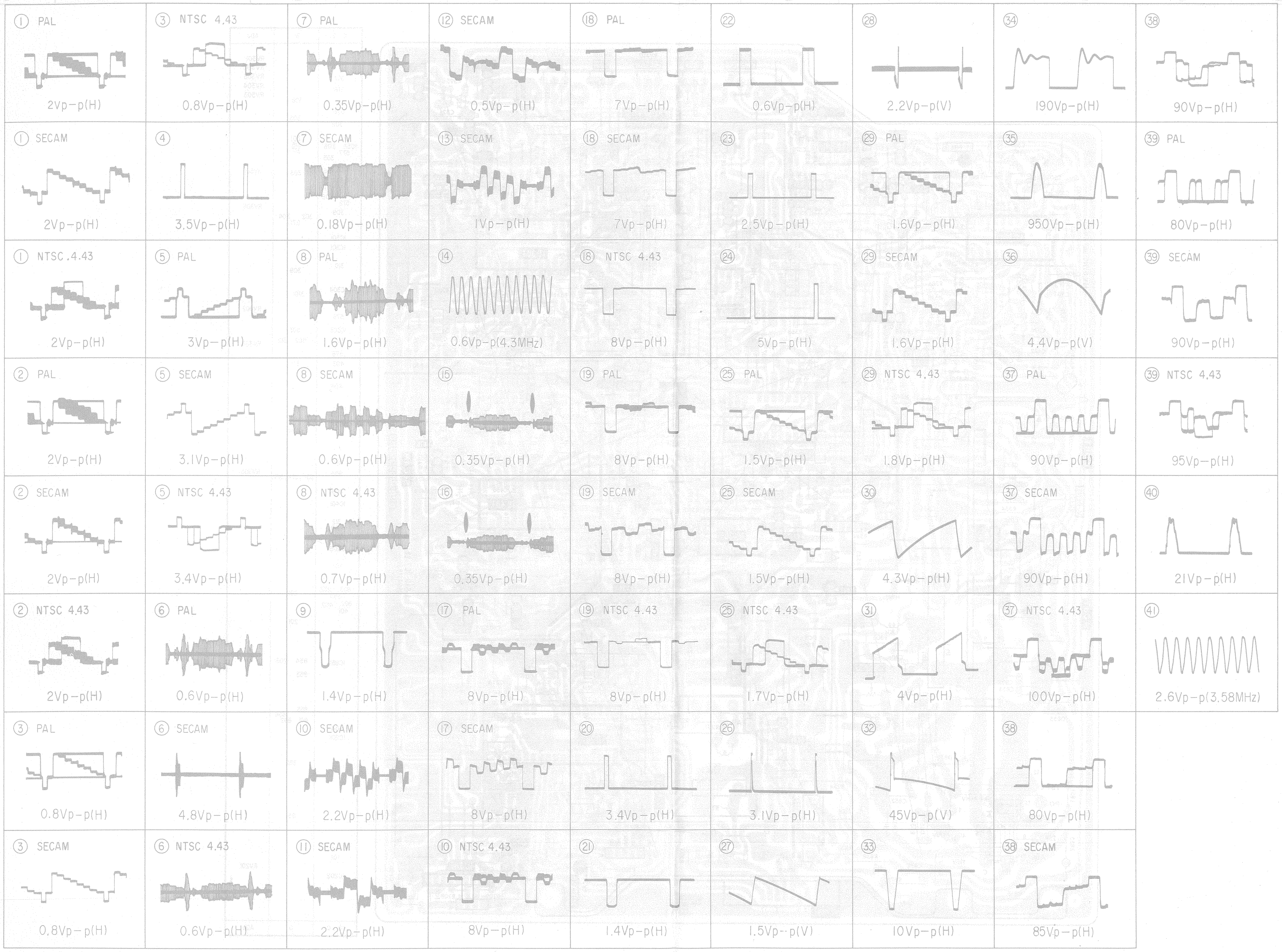

A
B
C
D
E
F
G
H
I
J
K
L
M
1
2
3
4
5
6
7
8
9
10
ANT TERMINAL
R901 75(1/2W)
M1 (HIT/NORMAL SELECT)
D1001 1SS119 SPIKE KILLER
N (REMOCON RECEIVE)
IC1 μPC1373H R/C AMP
D2 PH302B IR DETECT
M3 (CPU, D/A MODE, OSC) (PROGRAM MEMORY)
IC152 TC40H000P PULSE OSC
IC153 CX522-032 CPU
IC154 MB88301A D/A
IC155 CX7959 MEMORY
Q153 2SC2785 ST BY OUT
Q152 2SC2785 5V REG
Q152 2SC2785 H PULSE BUFFER
Q155 2SC2785 H-RAMP
Q156 2SA1175 BAR CONT-1
Q157 2SC2785 BAR CONT-2
Q158 2SC2785 BAR OUT
Q159 2SC2785 CHA OUT
Q163 2SK43-4 STAB
Q154 2SC2785 V. SYNC BUFFER
D161 RD3.9E-N1 RESET REF
D153 1SS119 SYSTEM-1
D154 1SS119 SYSTEM-2
D155 1SS119 SYSTEM-3
IC156 TC4011BP SYSTEM DECODER
Q161 2SC2785 RESET-1
Q166 2SC2785 RESET-2
D157 1SS119 KO 0
D158 1SS119 KO 1
D159 1SS119 KO 2
D160 1SS119 KO 3
Q160 2SC2785 VC BUFFER
IC158 μPC574J V-C
Q162 2SD773 5V REG
D152 RD5.6E-N3 5V REF
M2 (CH. INDICATOR SELECT)
D2001 SR632D-S ST BY
D2002 SR632D-S SLEEP
D2003 1SS119
D2004 1SS119
D2005 1SS119
D2006 1SS119
F (POWER RECT, REF PWM, OSC SHIFT)
D601 S3WB60Z POWER RECT
AC110V-240V 50/60Hz
POWER
TU101 BT-881 UHF/VHF TUNER
Q101 2SC2785 VC FILTER
Q317 2SC2785 PEAK CLAMP
IC202 LA7920 BAND SELECTOR
IC201 CX20015 VIF-SIF
D201 RD9.1-B3 VIF +B
SF201 SAWF 38.9MHz
VIF AMP
VIDEO DET
ANC
VIF AGC
RF AGC
LIM AMP
FM DET
AFT DET
AFT CONTROL
MUTE
VOL CONT AMP
Q202 2SA1175 MUTE
Q606 2SA1175 OSC SHIFT 2
D606 RD6.2E-N2 REF
Q605 2SC2785 OSC SHIFT 1
IC601 μPC1394C REF PWM
SOFT START
COMPA
REF AMP
REMOTE
OSC
ECL
LATCH
OUTPUT
REG
E BLOCK
Q601 2SC3153 REG OUT
Q602 2SC2958 REG DRIVE
D603 ERC25-06S +115V RECT
D604 GP08D STOPPER 2
Q603 2SA639S ECL
D608 RGP10G +13V RECT
D609 ERB81-004 +5V RECT
D610 GP08D -32V RECT
D611 1SS119 BIC


L
M
N
O
P
Q
R
S
T
U
V
W
X
Y
Z
A1
B1
A (VIF, CHROMA, Y AMP, V/H SYNC, MATRIX)
Q101 2SC2785 VC FILTER
Q317 2SC2785 PEAK CLAMP
Q316 2SC2785 MUTE INV
Q315 2SC2785 VIDEO BUFF
D303 ISS119 PIC PROT
Q302 2SC2785 ABL
D304 ISS119 ERT PROT
IC301 CX108 PAL, CHROMA
D305 ISS119 BRT
IC251 STK420 AF OUT
(JACK) Z
SP901
J901
Q307 2SB734 Y DRIVE
D308 SIB01-02 PROTECT
LA7920 SELECTOR
IC201 CX20015 VIF·SIF
D203 RD5.6E-N1 BUZZ SUPPRESS
Q201 2SA1175 DRIVE
PEDESTAL CLAMP
SHARP CONT AMP
BRIGHT CONT AMP
COLOR CONT AMP
PIC CONT AMP
ACC CONT AMP
KILLER
BURST GATE PULSE
PHASE DETECTOR
VARIABLE REACTANCE
OSC AMP
D302 ISS119 COL PROT
D301 ISS119 COLOR
Q303 2SC403C BPA-1
Q304 2SC403C BPA-2
Q306 2SA1175 CHECK BLK
Q305 2SC2785 SECAM SW
D315 ISS119 PAL SW
Q308 2SC2785 CHROMA DRIVE-1
Q309 2SC2785 CHROMA DRIVE-2
IC304 CX130 Y-C
D309 ISS119 SIG SW1
D310 ISS119 SIG SW2
Q310 2SA1175 PHASE SW
D306 ISS133 SECAM KILLER 1
D307 ISS133 SECAM KILLER 2
D311 ISS119 SECAM KILLER 3
D312 ISS119 SECAM KILLER 4
Q404 2SK107 SECAM KILL
Q403 2SC2785 SECAM SW 1
IC302 CX109 SW 1
CHROMA PHASE DETECTOR
MATRIX AMP
C-Y CLAMP
BLKING
REFERENCE WAVE SW
FF
ID
ACC ID KILLER DET
PULSE SHAPER LOGIC
SC AMP
D313 ISS119 H PULSE PROT
D314 ISS119 V PULSE PROT
Q311 2SC2785 ACC
VIF AMP
VIDEO DET
ANC
VIF AGC
RF AGC
LIM AMP
FM DET
AFT DET
AFT CONTROL
MUTE
VOL CONT AMP
Q401,402 2SC2785 SECAM BA1,2
Q301 2SC403C
Q202 2SA1175 MUTE
D202 ISS119 PROTECTOR
Q580 2SC2785 V PULSE KILL
Q408 2SC2458 DEL SYNC
Q409 2SA1175 DEL SYNC DR
IC401 CX175 SECAM CHROMA
TOP LIMITER
2ND LIMITER & SWITCHER
B-Y MULTIPLIER
R-Y MULTIPLIER
GAIN CONTROL AMP
PULSE SHAPE
CLAMP
S/H
SAMPLING INTEGRATER
ID CORRECTOR
KILLER
IC305 TC4019BP PULSE GATE
Q312 2SC2785 INVERT
Q405 2SC2785 B-Y AMP
Q406 2SC2785 R-Y AMP
Q407 2SA1175 SECAM KILLER
IC303 CX130 SW 2
Q805 2SC2785 H INV AMP
IC551 μPC1378H-L V OUT
D551 GP08D BOOST
BOOST
V-OUT
IC851 NJM7812B REG
D501 ISS119 SYSTEM SW 1
D855 V19E +24V RECT
D853 V19C +15V RECT
D854 GP08D
T851 FBT
D401 ISS119 DELAY SYNC
D502 ISS119 PROTECTOR
D503 ISS119 V OSC START
IC571 CX7916 50-60 CHG
IC501 μPC1377C H.V. OSC
V SYNC SEP
V OSC
V DRIVE
V BLK
SYNC SEP
AFC
H OSC
PROTECTOR
AMP
REG
D571 ISS119 V BLK
Q579 2SC2785 V SYNC AMP
Q577 2SC2785 V-P-B
Q576 2SC2785 H.P.B
Q571 2SC2785 V.P.B
Q573 2SC2785 V SIDE C
Q574 2SC2785 TU-C
Q575 2SC2785 V OSC C
Q572 2SA1175 V BLK C
Q578 2SC2785 V LIN SW
Q803 2SC2785 ST BY SW
Q801 2SC2688 H DRIVE
D801 GP08D H CENT 1
D802 GP08D H CENT 2
D856 GP08D DCT PROT
D852 V30N G2 RECT
D851 RGP10G +200V RECT
Q802 2SD1396 H OUT
DY
Q804 2SD789 DCT DRIVE
Q606 2SA1175 OSC SHIFT 2
D606 RD6.2E-N2 REF
Q605 2SC2785 OSC SHIFT 1
COMPA
REF AMP
OSC
E BLOCK
REG
D610 GP08D -32V RECT
D611 ISS119 BIC
D608 RGP10G +13V RECT
D609 ER881-004 +5V RECT
T603 SRT
SECAM
ACC
60Hz
H.BLK
V.BLK
V.SYNC
A-6
F-3
F-4
A-4
+12V
+5V
-32V
ST BY
+15V
115
HP
ST BY
V.SIZE
H.CENT
H.FREQ
V.CENT
COLOR
PIC
BRT
HUE
PHASE


P
Q
R
S
T
U
V
W
X
Y
Z
A1
B1
C1
D1
E1
A (VIF, CHROMA, Y AMP) (W/HSYNC, MATRIX)
C (R, G, B OUT)
(JACK) Z
V901 A34JBU00X PICTURE TUBE (14-90-55)
Q315 2SC2785 VIDEO BUFF
D303 1SS119 PIC PROT
Q302 2SC2785 ABL
D304 1SS119 ERT PROT
IC301 CX108 PAL, CHROMA
D305 1SS119 BRT
IC251 STK420 AF OUT
Q307 2SB734 Y DRIVE
D308 S1B01-02 PROTECT
D301 1SS119 COLOR
Q303 2SC403C BPA-1
Q304 2SC403C BPA-2
Q306 2SA1175 CHECK BLK
Q305 2SC2785 SECAM SW
IC302 CX109 SW 1
D302 1SS119 COL PROT
D315 1SS119 PAL SW
Q310 2SA1175 PHASE SW
D306 1SS133 SECAM KILLER 1
D307 1SS133 SECAM KILLER 2
D311 1SS119 SECAM KILLER 3
D312 1SS119 SECAM KILLER 4
Q308 2SC2785 CHROMA DRIVE-1
Q309 2SC2785 CHROMA DRIVE-2
IC304 CX130 Y-C
D309 1SS119 SIG SW1
D310 1SS119 SIG SW2
Q404 2SK107 SECAM KILL
Q403 2SC2785 SECAM SW 1
Q301 2SC403C
D313 1SS119 H PULSE PROT
D314 1SS119 V PULSE PROT
Q311 2SC2785 ACC
Q580 2SC2785 V PULSE KILL
Q408 2SC2458 DEL SYNC
Q409 2SA1175 DEL SYNC DR
IC401 CX175 SECAM CHROMA
Q405 2SC2785 B-Y AMP
Q406 2SC2785 R-Y AMP
Q407 2SA1175 SECAM KILLER
IC303 CX130 SW 2
Q805 2SC2785 H INV AMP
IC551 μPC1378H-L V OUT
D551 GP08D BOOST
IC851 NJM7812B REG
D501 1SS119 SYSTEM SW 1
D855 V19E +24V RECT
D853 V19C +15V RECT
D854 GP08D
Q312 2SC2785 INVERT
IC305
D401 1SS119 DELAY SYNC
D502 1SS119 PROTECTOR
D503 1SS119 V OSC START
IC571 CX7916 50-60 CHG
IC501 μPC1377C H.V. OSC
Q572 2SA1175 V BLK C
D571 1SS119 V BLK
Q571 2SC2785 V.P.B
Q573 2SC2785 V SIDE C
Q574 2SC2785 TU-C
Q575 2SC2785 V OSC C
Q576 2SC2785 H.P.B
Q801 2SC2688 H DRIVE
Q578 2SC2785 V LIN SW
D801 GP08D H CENT 1
D802 GP08D H CENT 2
D856 GP08D DCT PROT
D852 V30N G2 RECT
D851 RGP10G +200V RECT
Q802 2SD1396 H OUT
Q804 2SD789 DCT DRIVE
T851 FBT
T801 HDT
T802 HPCT
DY
Q701 2SC2278 R OUT
Q702 2SC2278 G OUT
Q703 2SC2278 B OUT
PEDESTAL CLAMP
PIC CONT AMP
SHARP CONT AMP
BRIGHT CONT AMP
COLOR CONT AMP
ACC CONT AMP
KILLER
BURST GATE PULSE
PHASE DETECTOR
VARIABLE REACTANCE
OSC AMP
CHROMA PHASE DETECTOR
MATRIX AMP
C-Y CLAMP
BLKING
REFERENCE WAVE SW
ACC ID KILLER DET
PULSE SHAPER LOGIC
TOP LIMITER
2ND LIMITER SWITCHER
B-Y MULTIPLIER
R-Y MULTIPLIER
GAIN CONTROL AMP
PULSE SHAPE
CLAMP
SAMPLING INTEGRATER
ID CORRECTOR
KILLER
BOOST
V OUT
V SYNC SEP
SYNC SEP
AFC
H OSC
V OSC
V DRIVE
V BLK
PROTECTOR
AMP
REG
SOUND OUT
SP901
J901
FOCUS
SCREEN
H STAT
R BGD
G BGD
B BGD
G DRIVE
B DRIVE
V SIZE
V HOLD
H CENT
H FREQ
V CENT

Note: BGD = BACKGROUND

3-4. WAVEFORMS

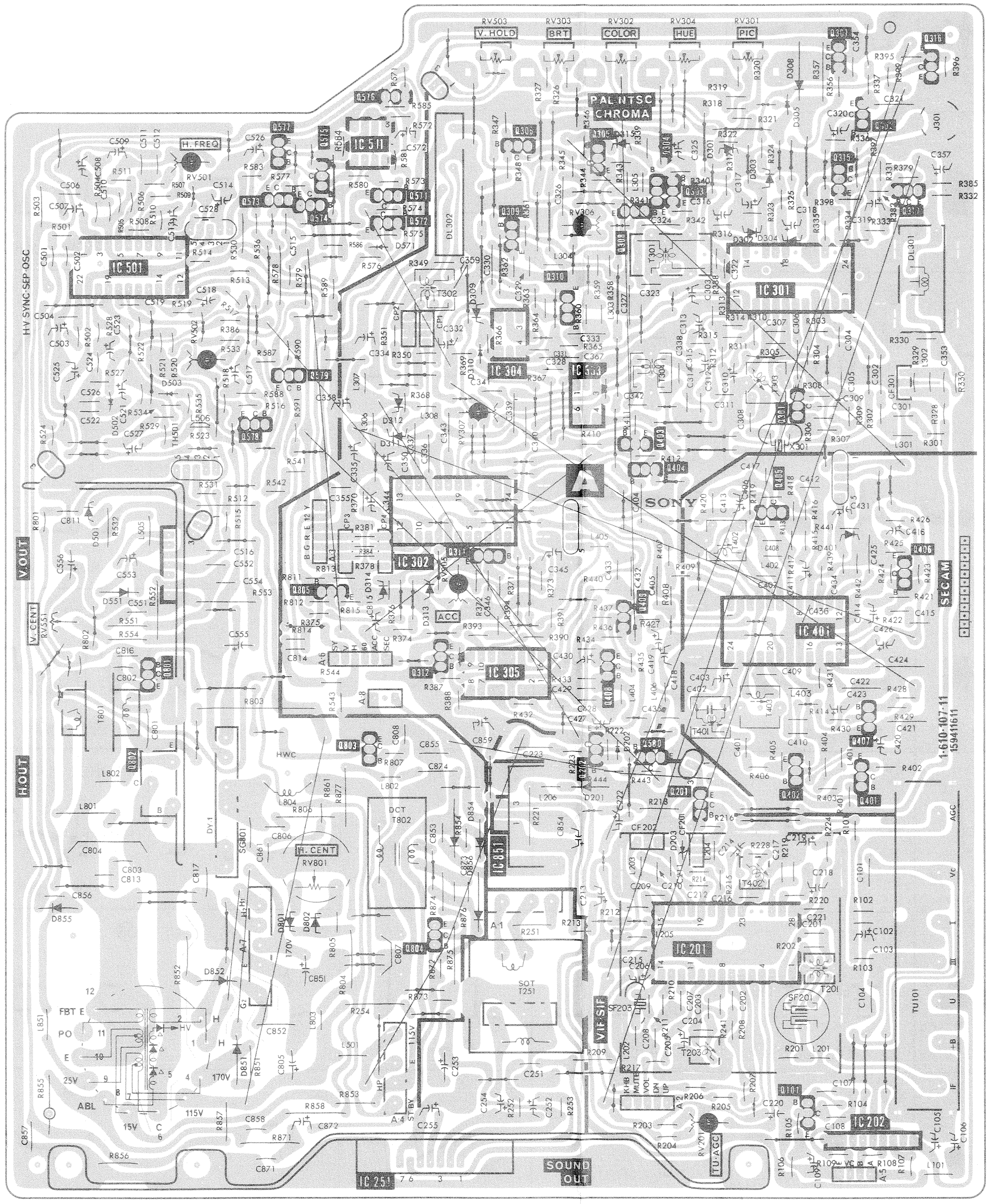


3-5. MOUNTING DIAGRAMS

VIF, CHROMA, Y AMP
V/H SYNC, MATRIX

A **A**

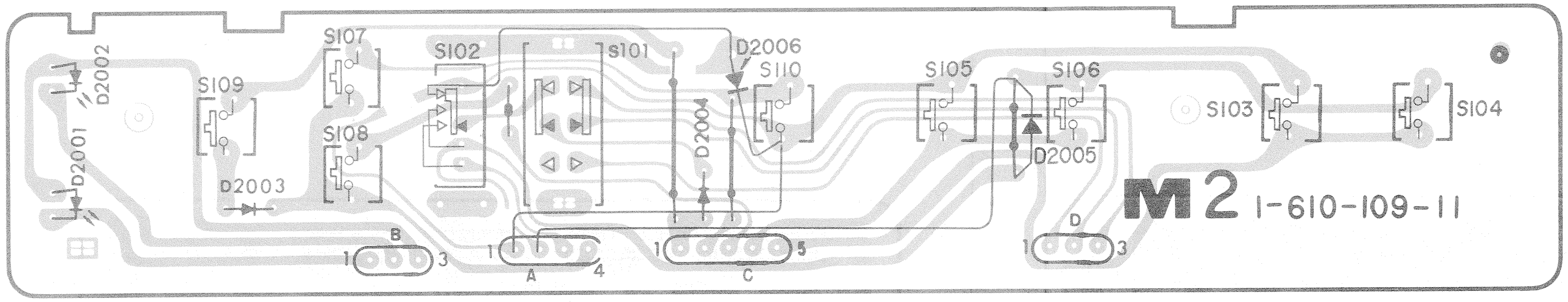
– A Board –


A B C D E F G H I J K L M N O P
1 2 3 4 5 6 7 8 9 10
RV503 V.HOLD
RV303 BRT
RV302 COLOR
RV304 HUE
RV301 PIC
PAL NTSC CHROMA
H.FREQ
IC501
IC511
IC301
IC304
IC302
IC305
IC401
IC851
IC201
IC202
IC251
H/V SYNC SEP OSC
V.OUT
V.CENT
H.OUT
H.CENT
RV801
FBT
DY
DCT T802
SOT T251
ACC
SONY
SECAM
VIF SIF
TU-AGC
TU101
SOUND OUT
AGC
1-610-107-11
15941161

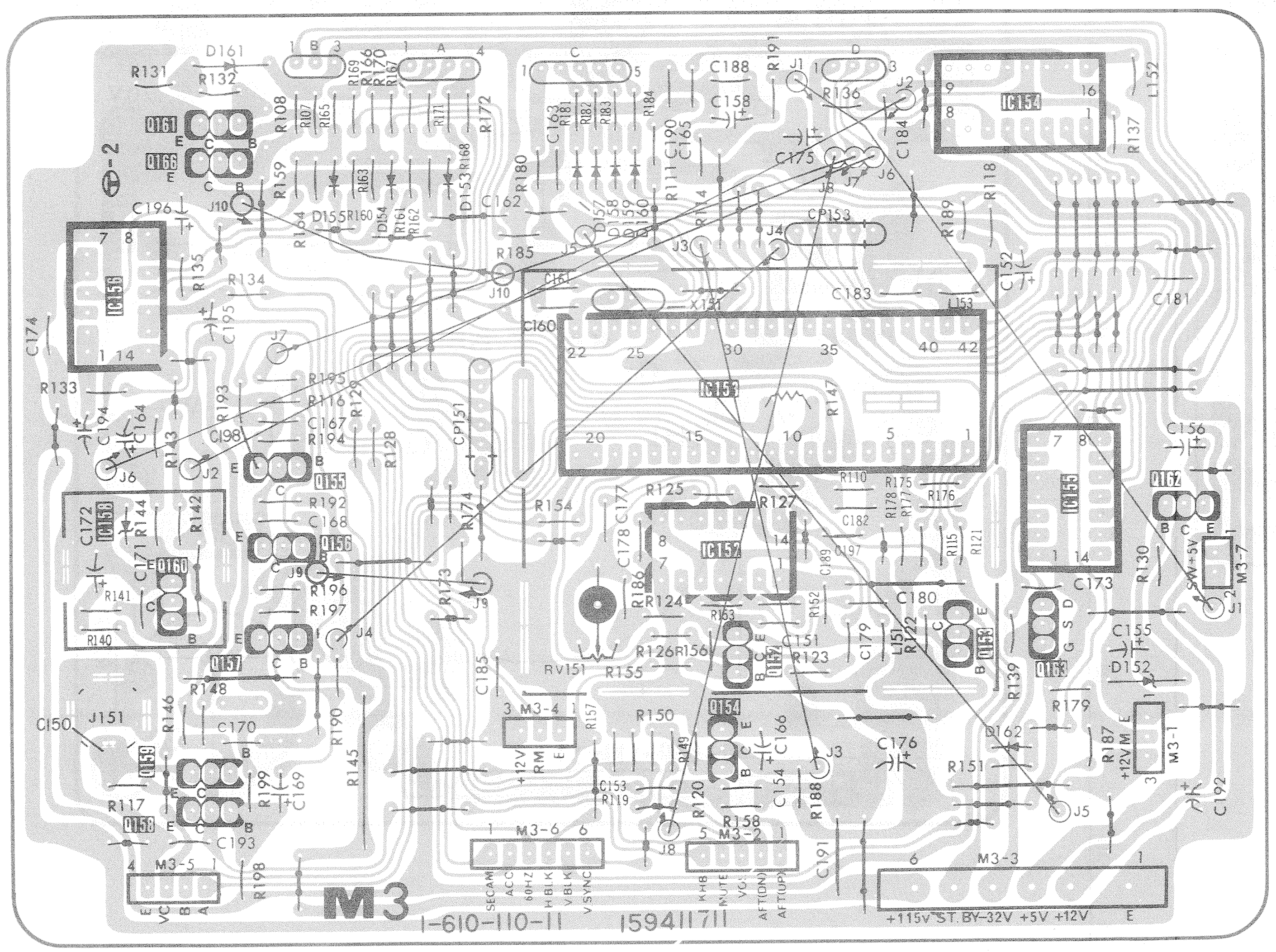
IC Q	D	ADJ
307 316		RV301 RV302 RV303 RV304 RV503
	308	
576	305	
302		
IC571 306 577 305	301 315 317	
575 315	303	RV501
304,303,317 573 571 574 308 572		RV306
309	302 304 571	
IC501 IC301		
310	309	
IC304	310	
		RV502
579		
IC303	503	
301	502 312	RV307
578 403	311	
404		
405 IC302	501 401	
311		
406		
805	551 , 314 , 313	RV305
409		
IC401		
312 408 801		
IC305		
407		
803 202 580 802 402 401	202	
	201	
IC851	854 203	
	853	
	855 856 801 802	
804 IC201		
	852	
	851	
101		RV201
IC202		
IC251		
IC , Q	D	ADJ

A B C D E F G H I J K L M N O

—M2 Board —


1
2
3
D2002
D2001
S109
D2003
S107
S108
S102
S101
D2006
S110
D2004
S105
S106
D2005
S103
S104
M2 1-610-109-11
B
1
3
A
1
4
C
1
5
D
1
3

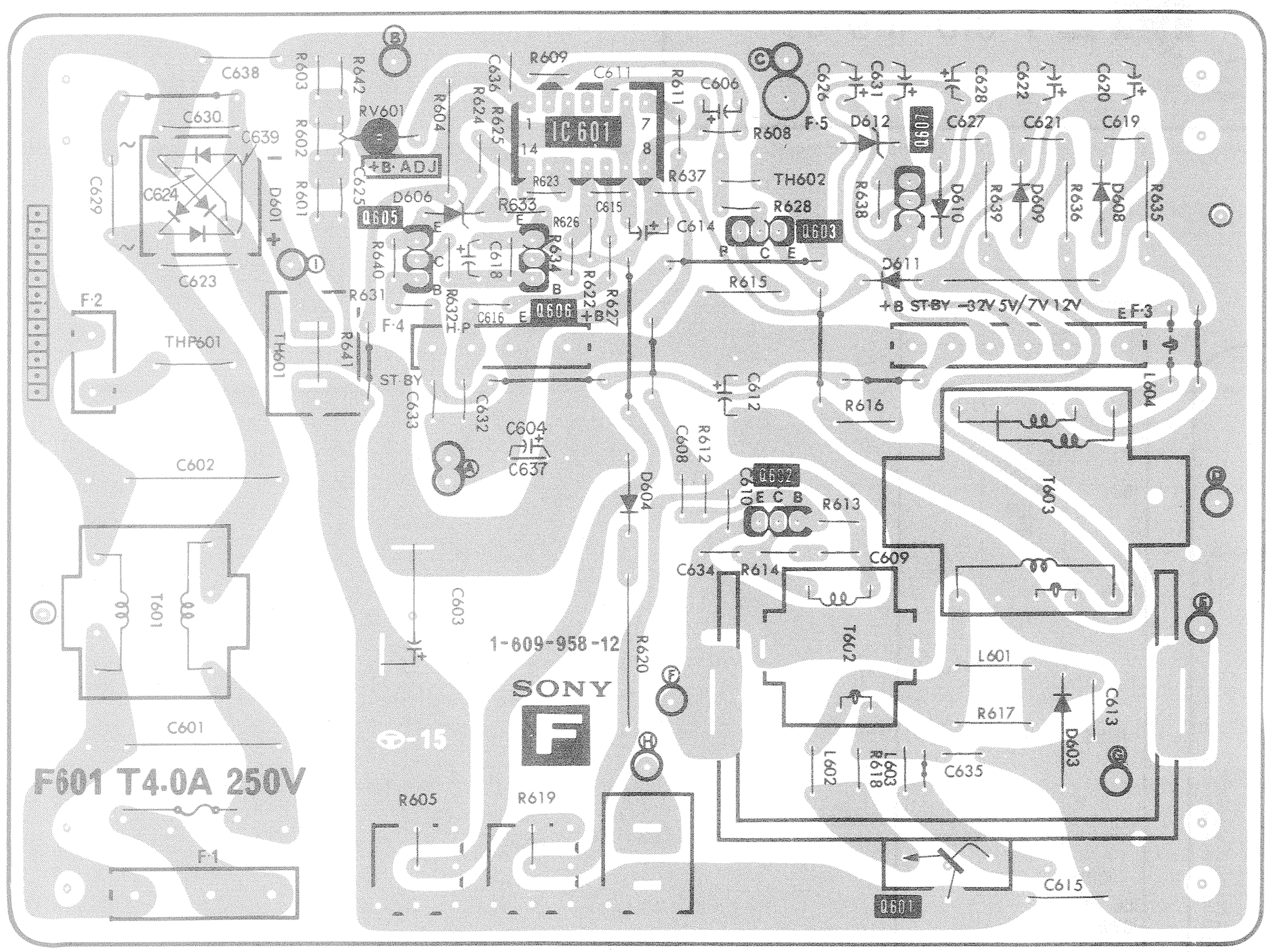
— M3 Board —


4
5
6
7
8
9
10
D161
R131
R132
1 B 3
R169
R166
R170
R167
1 A 4
1 C 5
C188
R191
D
3
IC154
L152
Q161
Q166
R108
R107
R165
R171
R172
C163
R181
R182
R183
R184
C158
R136
J2
9
8
16
1
R137
T-2
R159
R163
R168
D153
R180
C190
C165
C175
J7
J6
C184
R118
C196
J10
R104
D155
R160
D154
R162
C162
D157
D158
D159
D160
R111
R114
J3
J4
CP153
R189
7 8
IC156
R135
R134
R185
J5
J10
C161
C152
C181
C195
1 14
C174
J7
C160
X151
C183
L153
22 25 30 35 40 42
IC153
R133
R195
R116
R129
C167
R194
R128
CP151
R147
20 15 10 5 1
C194
C164
R113
C198
J2
J6
Q155
R192
C168
Q156
R174
R154
C177
R125
R127
R110
R175
R176
R177
R178
C156
7 8
IC155
Q162
C172
IC158
R144
R142
C171
Q160
R141
R140
J9
R196
R197
J4
R173
J9
C178
IC152
R186
R124
C182
C189
C197
R115
R121
R130
C173
1 14
SW+5V
M3-7
J1
Q157
R148
C185
RV151
R155
R126
R156
Q153
C151
R123
R152
C180
C179
L151
R122
Q163
R139
C155
D152
C150
J151
R146
C170
Q159
R190
R145
3 M3-4 1
+12V
RM
E
R157
R150
Q154
C166
J3
C176
D162
R151
R179
R187
+12V M E
M3-1
C192
R117
R199
C169
Q158
C193
C153
R119
R149
R120
C154
R158
R188
J8
J5
4 M3-5 1
E VC B A
R198
1 M3-6 6
SECAM ACC 60HZ HBLK VBLK VSYNC
5 M3-2 1
KHB MUTE VC AFT(DN) AFT(UP)
C191
6 M3-3 1
+115V ST.BY-32V +5V +12V E
M3 1-610-110-11
1594117|1

Q , IC	D	ADJ
	161	
IC154		
161	155,153	
166	154,157	
	158	
	160	
IC156		
IC153		
155		
IC155		
156 162		
IC158		
IC152		
160		RV151
163		
157		
153		
152		
	152	
	162	
154		
159		
158		
Q , IC	D	ADJ

POWER RECT
REF PWM, OSC SHIFT
F

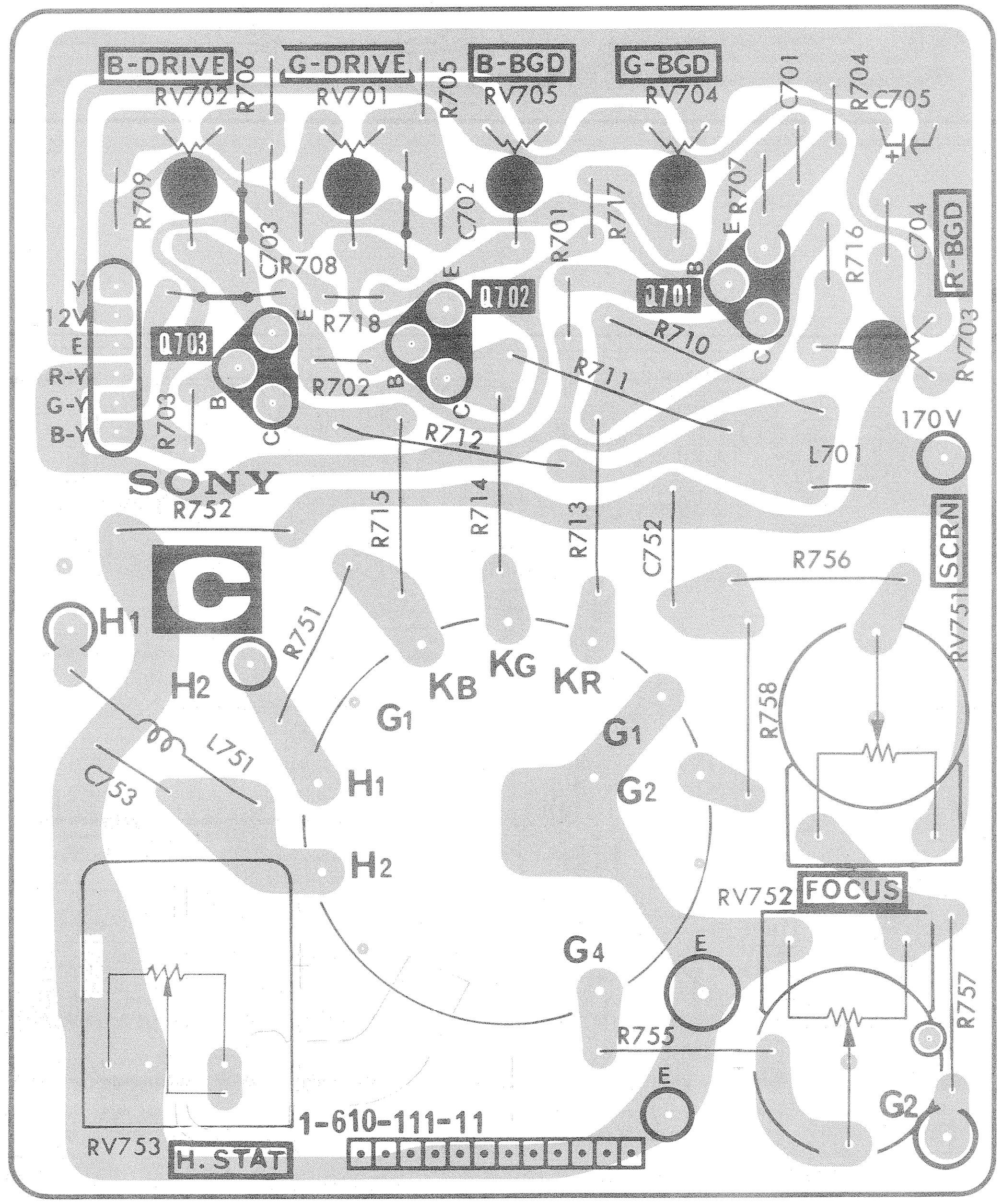
– F Board –


A B C D E F G
1 2 3 4 5 6 7 8 9
C638
R603
R642
RV601
C636
R625
R624
R604
R609
C611
R611
C606
C630
C639
+B ADJ
IC601
R608
F-5
D612
D607
C627
C621
C619
C629
C624
R602
R601
D601
C625
D606
Q605
R623
R633
R626
C615
C614
R637
TH602
R628
Q603
R638
D610
R639
D609
R636
D608
R635
C623
R640
C618
R634
Q606
R622
R627
R615
D611
+B ST-BY -32V 5V/7V 12V
F-3
F-2
R631
R632
F-4
C616
THP601
TH601
R641
ST-BY
C633
C632
C612
R616
L604
C604
C637
C608
R612
D604
Q602
C610
R613
T603
C602
C634
R614
C609
T601
C603
1-609-958-12
R620
T602
L601
C613
SONY
F
R617
D603
C601
F601 T4.0A 250V
R605
R619
L602
L603
R618
C635
F-1
Q601
C615

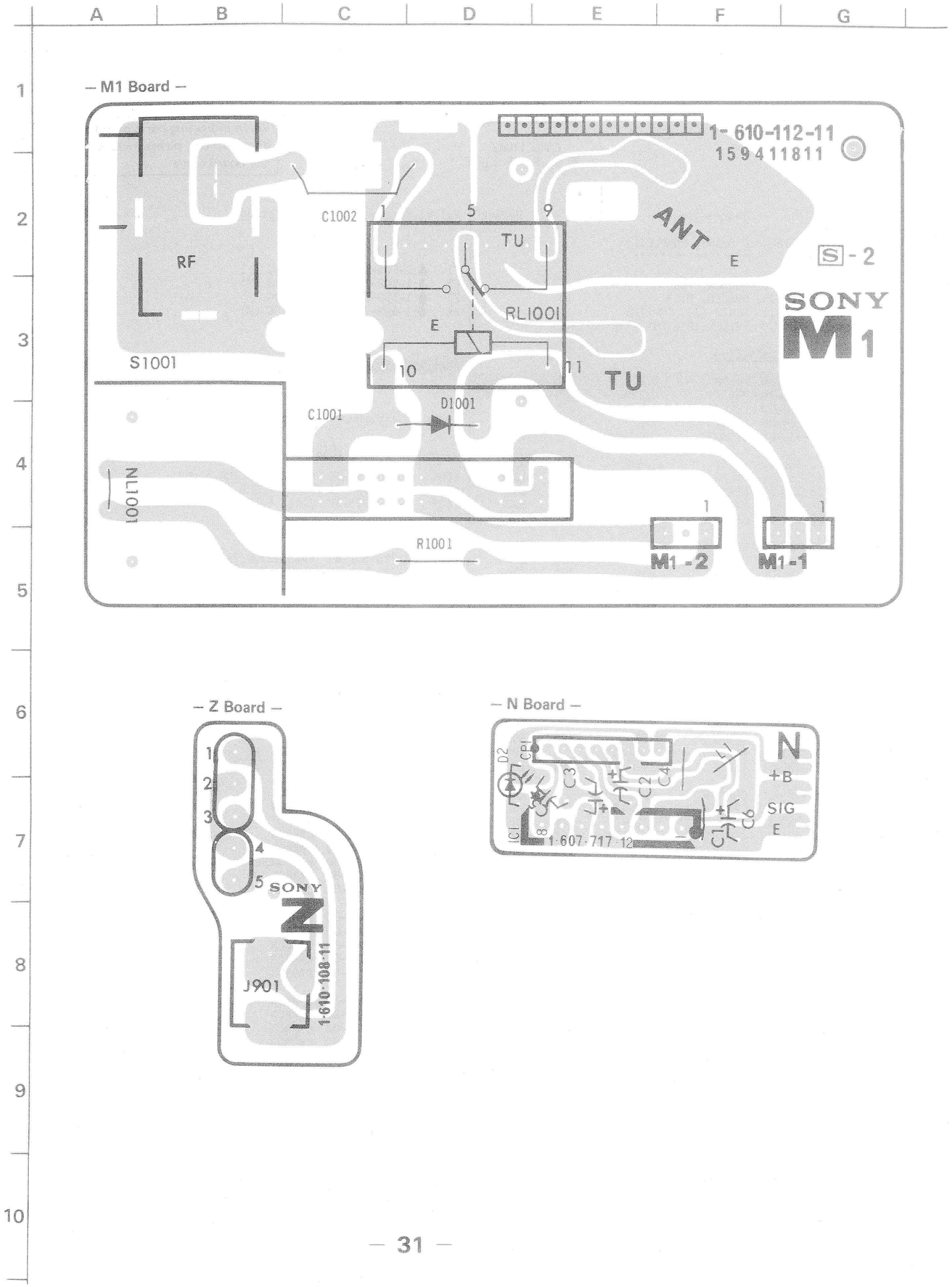
C [R·G·B OUT]

Note: BGD = BACKGROUND

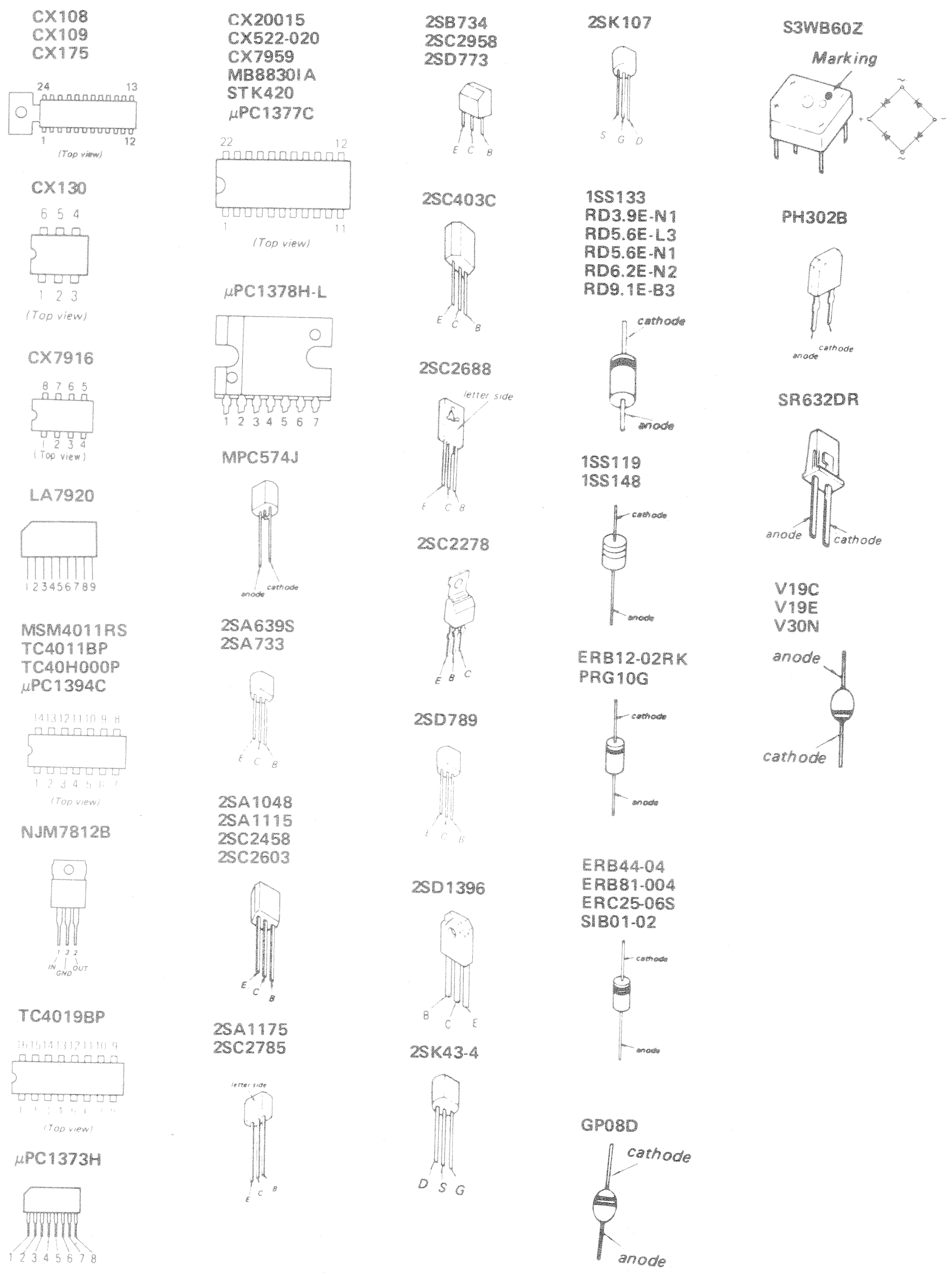
– C Board –


A B C D E F G
1 2 3 4 5 6 7 8 9
B-DRIVE
RV702
R706
G-DRIVE
RV701
R705
B-BGD
RV705
G-BGD
RV704
C701
R704
C705
R709
C703
C702
R701
R717
R707
R716
C704
R-BGD
R708
Q702
Q701
12V
E
R-Y
G-Y
B-Y
Q703
R718
R710
R711
RV703
R702
R703
R712
170V
L701
SONY
R752
R715
R714
R713
C752
R756
SCRN
C
H1
H2
R751
KB
KG
KR
G1
RV751
R758
L751
C753
H1
G2
H2
G4
RV752
FOCUS
E
R755
R757
E
1-610-111-11
G2
RV753
H.STAT

[HIT/NOROMAL SELECT] **M1** [JACK] **Z** [REMOCON RECEIVE] **N**

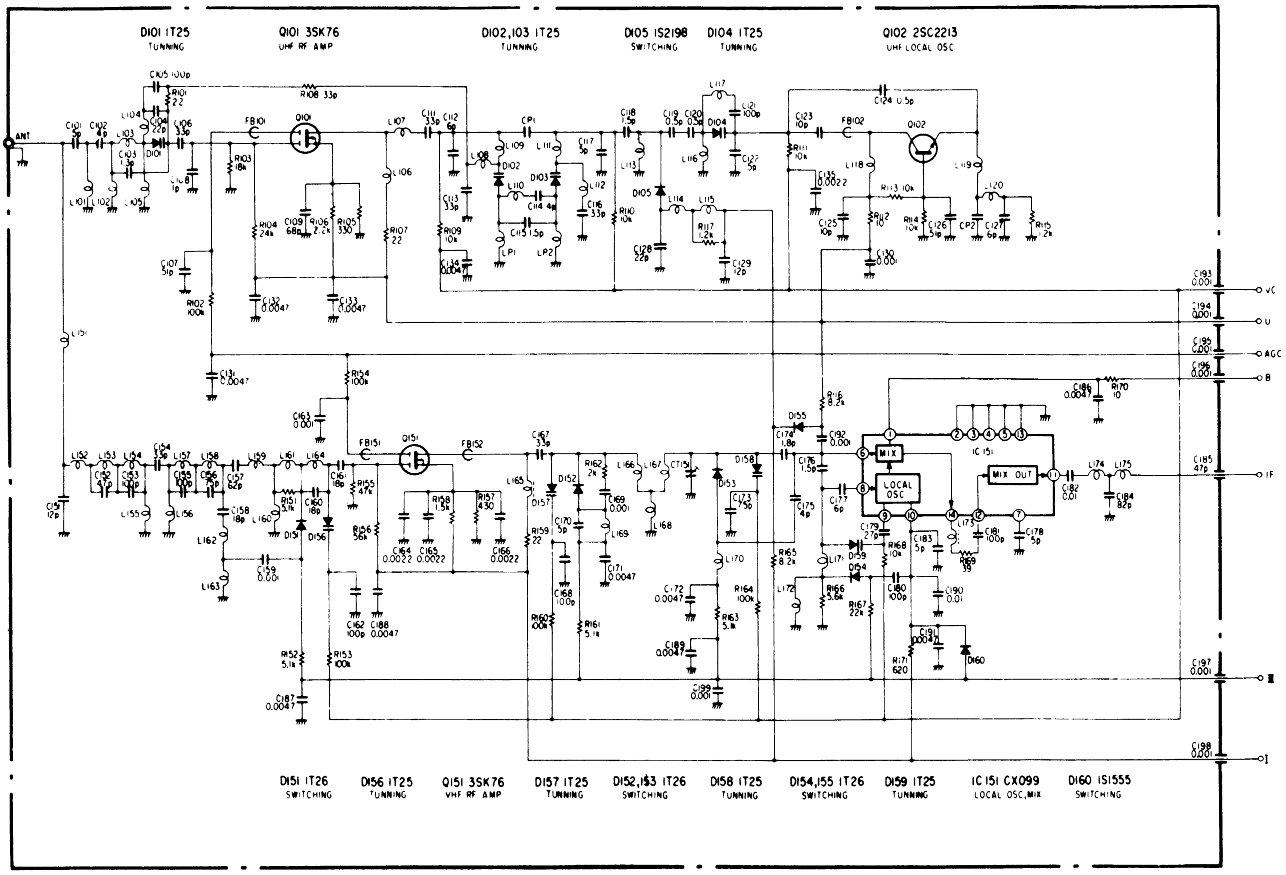

A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
9
10
– M1 Board –
1-610-112-11
159411811
C1002
1
5
9
TU
RF
RL1001
E
ANT
E
S-2
SONY
M1
S1001
10
11
TU
C1001
D1001
NL1001
R1001
1
1
M1-2
M1-1
– Z Board –
1
2
3
4
5
SONY
Z
J901
1-610-108-11
– N Board –
D2
CP1
C3
C2
C4
L1
N
+B
SIG
E
IC1
8
1-607-717-12
C1
C6

3-6. SEMICONDUCTORS


CX108
CX109
CX175
24
13
1
12
(Top view)
CX130
6 5 4
1 2 3
(Top view)
CX7916
8 7 6 5
1 2 3 4
(Top view)
LA7920
1 2 3 4 5 6 7 8 9
MSM4011RS
TC4011BP
TC40H000P
μPC1394C
14 13 12 11 10 9 8
1 2 3 4 5 6 7
(Top view)
NJM7812B
1 3 2
IN GND OUT
TC4019BP
16 15 14 13 12 11 10 9
1 2 3 4 5 6 7 8
(Top view)
μPC1373H
1 2 3 4 5 6 7 8
CX20015
CX522-020
CX7959
MB88301A
STK420
μPC1377C
22
12
1
11
(Top view)
μPC1378H-L
1 2 3 4 5 6 7
MPC574J
anode
cathode
2SA639S
2SA733
E C B
2SA1048
2SA1115
2SC2458
2SC2603
E C B
2SA1175
2SC2785
letter side
E C B
2SB734
2SC2958
2SD773
E C B
2SC403C
E C B
2SC2688
letter side
E C B
2SC2278
E B C
2SD789
E C B
2SD1396
B C E
2SK43-4
D S G
2SK107
S G D
1SS133
RD3.9E-N1
RD5.6E-L3
RD5.6E-N1
RD6.2E-N2
RD9.1E-B3
cathode
anode
1SS119
1SS148
cathode
anode
ERB12-02RK
PRG10G
cathode
anode
ERB44-04
ERB81-004
ERC25-06S
SIB01-02
cathode
anode
GP08D
cathode
anode
S3WB60Z
Marking
PH302B
anode
cathode
SR632DR
anode
cathode
V19C
V19E
V30N
anode
cathode

UHF/VHF TUNER SCHEMATIC DIAGRAMS

- **BT-881**


D101 1T25
TUNNING
Q101 3SK76
UHF RF AMP
D102,103 1T25
TUNNING
D105 1S2198
SWITCHING
D104 1T25
TUNNING
Q102 2SC2213
UHF LOCAL OSC
ANT
VC
U
AGC
B
IF
II
I
MIX
LOCAL OSC
MIX OUT
IC 151
D151 1T26
SWITCHING
D156 1T25
TUNNING
Q151 3SK76
VHF RF AMP
D157 1T25
TUNNING
D152,153 1T26
SWITCHING
D158 1T25
TUNNING
D154,155 1T26
SWITCHING
D159 1T25
TUNNING
IC 151 CX099
LOCAL OSC,MIX
D160 1S1555
SWITCHING

Note: Tuner reference numbers are not included in the Electrical Parts List.

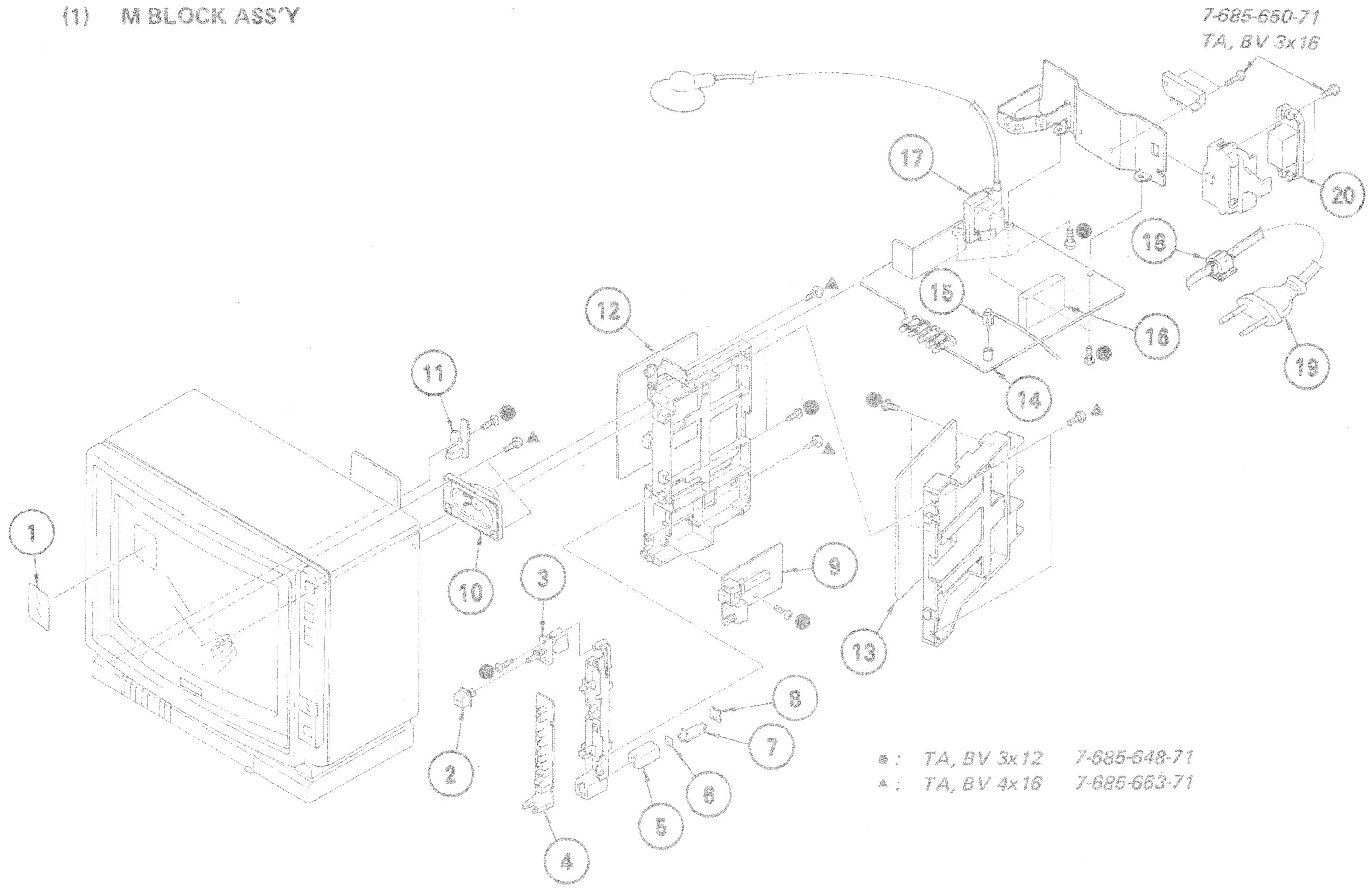
SECTION 4
EXPLODED VIEWS

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

- Items marked " ♠ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

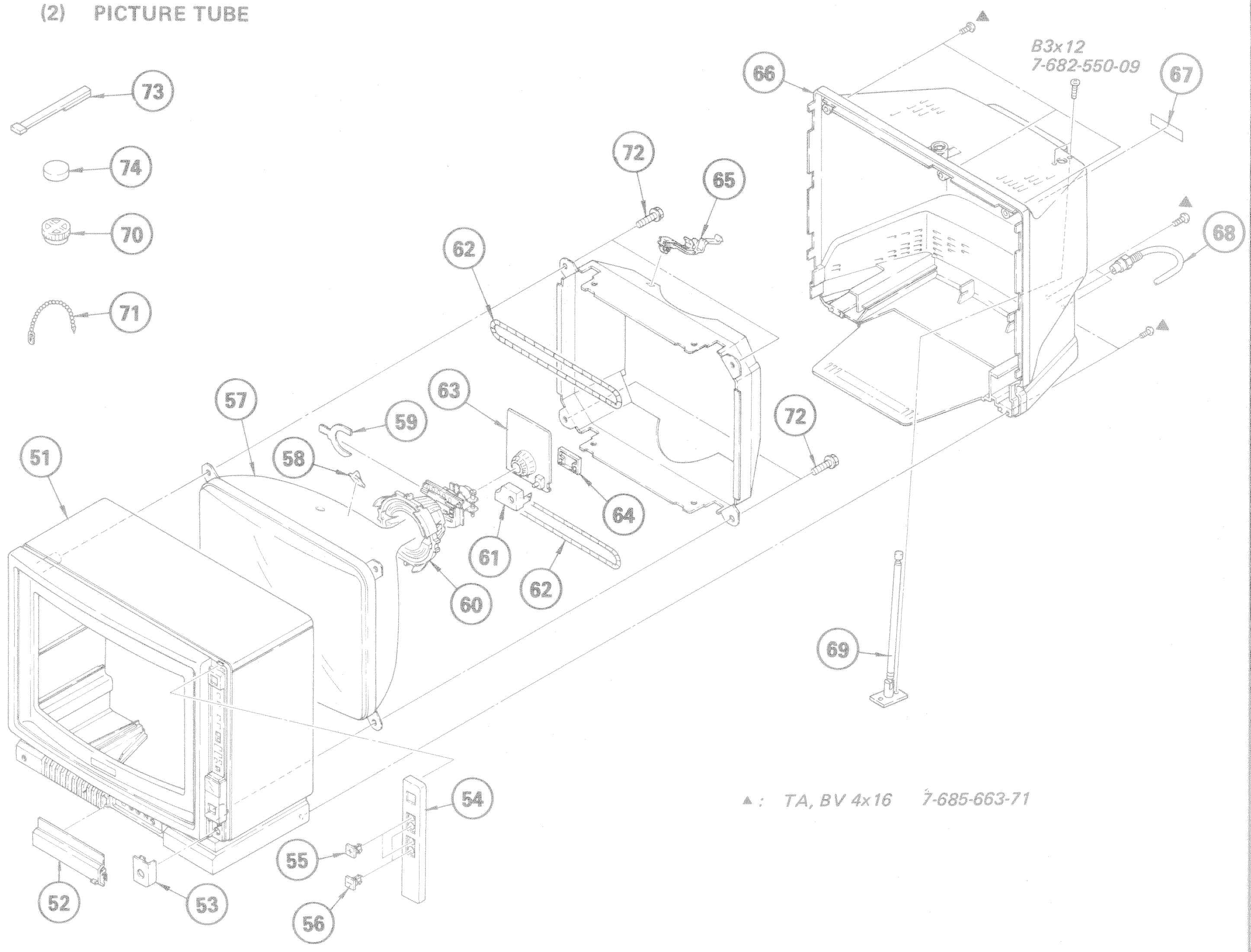
The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

(1) M BLOCK ASS'Y



No.	Part No.	Description	Remark
1	3-703-705-01	STICKER, SONY SYMBOL (30)	
2	4-366-534-00	BUTTON, POWER	
3	⚠.1-553-225-00	SWITCH, PUSH	
4	♠:1-610-109-00	M2 BOARD	
5	♠:4-342-117-00	CASE, SHIELD (MAIN), R	
6	♠:4-333-624-00	FILM (N), SPECIAL	
7	♠:1-607-717-00	N BOARD	
8	♠:4-342-118-00	LID, SHIELD CASE, R	
9	♠:1-610-112-00	M1 BOARD	
10	1-503-239-00	SPEAKER	
11	♠:1-610-108-00	Z BOARD	
12	♠:A-1301-479-A	M3 BOARD, COMPLETE	
13	♠:A-1245-213-A	F BOARD, COMPLETE	
14	♠:A-1295-719-A	A BOARD, COMPLETE	
15	♠:1-555-405-00	CABLE, P-P	
16	⚠.1-463-350-31	TUNER (BT-881)	
17	⚠.1-439-311-00	TRANSFORMER ASSY, FLYBACK	
18	⚠.4-022-115-00	HOLDER, AC CORD	
19	⚠.1-551-427-11	CORD, POWER, EULO PLUG	
20	⚠.1-536-683-00	CONNECTOR, COAXIAL ANTENNA	

(2) PICTURE TUBE



No.	Part No.	Description	Remark
51	X-4366-505-0	BEZEL ASSY	52
52	4-365-821-00	DOOR, CONTROL	
53	4-365-817-00	COVER, TERMINAL	
54	X-4366-504-0	DOOR ASSY	55,56
55	X-4365-807-1	BUTTON ASSY	
56	X-4365-807-2	BUTTON ASSY	
57	⚠.8-735-550-05	CRT (A34JBU00X)	
58	3-703-003-00	SPACER, DY	
59	1-452-277-00	MAGNET, BMC	
60	⚠.1-451-230-00	DEFLECTION YOKE (SY-125)	
61	♠:4-365-803-00	COVER (MAIN), CV CONTROL	
62	⚠.1-426-145-00	COIL, DEGAUSSING	
63	♠:A-1330-431-A	C BOARD, COMPLETE	
64	♠:4-365-804-00	COVER (REAR LID), CV CONTROL	
65	♠:4-346-339-00	HOLDER, HV CABLE	
66	4-366-409-11	COVER, BACK	
67	4-302-759-00	LABEL, SERIAL NUMBER	
68	⚠.1-556-054-00	ANT PLUG ASSY	
69	1-501-152-00	ROD ANTENNA, TYPE B	
70	1-452-094-00	MAGNET, ROTATABLE DISK; 15mmϕ	
71	4-308-870-00	CLIP, LEAD WIRE	
72	4-365-808-00	SCREW (5), TAPPING	
73	X-4309-608-0	PERMALLOY ASSY, CONVERGENCE	
74	1-452-032-00	MAGNET, DISK; 10mmo	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

F

SECTION 5
ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

- Items marked " ● " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
- MF : μF, PF : μμF

RESISTORS
- All resistors are in ohms
- F : nonflammable

COILS
- MMH : mH, UH : μH

When indicating parts by reference number, please include the board name.

Ref.No.	Part No.	Description				Remark
	●:A-1245-213-A	F BOARD, COMPLETE *****************				
	●:1-533-037-00	HOLDER, FUSE				
	4-363-414-00	SPACER, MICA				
	4-365-810-11	SCREW (3), TAPPING				
	●:4-367-204-00	HOLDER (REG OUT), TRANSFORMER				
		CAPACITOR				
C601	⚠ 1-108-745-00	MYLAR	0.22MF	20%	300V	
C602	⚠ 1-108-745-00	MYLAR	0.22MF	20%	300V	
C603	1-125-318-00	ELECT(BLOCK)	220MF	20%	400V	
C604	1-123-024-00	ELECT	33MF		160V	
C605	1-161-830-00	CERAMIC	0.0047MF		500V	
C606	1-123-381-00	ELECT	2.2MF	20%	50V	
C608	1-108-381-00	MYLAR	0.022MF	10%	100V	
C609	1-102-030-00	CERAMIC	330PF	10%	500V	
C610	1-108-417-00	MYLAR	0.0047MF	10%	200V	
C611	1-102-973-00	CERAMIC	100PF	5%	50V	
C612	1-123-024-00	ELECT	33MF		160V	
C613	1-102-249-00	CERAMIC	680PF	20%	2KV	
C614	1-123-356-00	ELECT	10MF	20%	16V	
C615	1-108-563-00	MYLAR	0.0022MF	5%	50V	
C616	1-101-810-00	CERAMIC	100PF	5%	500V	
C618	1-123-379-00	ELECT	0.47MF	20%	50V	
C619	1-102-030-00	CERAMIC	330PF	10%	500V	
C620	1-123-335-00	ELECT	330MF	20%	25V	
C621	1-102-030-00	CERAMIC	330PF	10%	500V	
C622	1-123-333-00	ELECT	100MF	20%	16V	
C623	1-161-964-00	CERAMIC	0.0047MF		250V	
C624	1-161-964-00	CERAMIC	0.0047MF		250V	
C625	1-102-030-00	CERAMIC	330PF	10%	500V	
C627	1-101-821-00	CERAMIC	0.0022MF		500V	
C628	1-123-530-51	ELECT	33MF	20%	100V	
C629	1-161-964-00	CERAMIC	0.0047MF		250V	
C630	1-161-964-00	CERAMIC	0.0047MF		250V	
C632	1-102-030-00	CERAMIC	330PF	10%	500V	
C633	1-102-121-00	CERAMIC	0.0022MF	10%	50V	
C634	1-102-030-00	CERAMIC	330PF	10%	500V	
C636	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C637	1-102-121-00	CERAMIC	0.0022MF	10%	50V	
C638	⚠ 1-161-953-51	FILM	0.0047MF	20%	400V	
C639	1-102-074-00	CERAMIC	0.001MF	10%	50V	
		DIODE				
D601	8-719-503-06	DIODE S3WB60Z				
D603	8-719-925-06	DIODE ERC25-06S				
D604	8-719-920-04	DIODE ERB12-04RK				
D606	8-719-102-74	DIODE RD6.2E-N2				
D608	8-719-924-06	DIODE ERC24-06S				
D609	8-719-982-04	DIODE ERB81-004				
D610	8-719-920-04	DIODE ERB12-04RK				
D611	8-719-911-19	DIODE 1SS119				

Ref.No.	Part No.	Description				Remark
		CONNECTOR				
F1	●:1-506-348-XX	3P PLUG (L)				
F2	●:1-508-736-00	2P PLUG (M)				
F3	●:1-508-768-00	6P PLUG				
F4	●:1-508-766-00	4P PLUG (M)				
		FUSE				
F601	⚠ 1-532-350-00	FUSE, TIME-LAG 4A				
		IC				
IC601	8-759-100-75	IC UPC1394C				
		COIL				
L601	1-408-300-00	MICRO INDUCTOR 6.8UH				
L602	1-407-365-00	COIL, CHOKE (HIGH FREQUENCY)				
L604	1-407-365-00	COIL, CHOKE (HIGH FREQUENCY)				
		TRANSISTOR				
Q601	8-729-801-69	TRANSISTOR 2SC3153				
Q602	8-729-195-82	TRANSISTOR 2SC2958				
Q603	8-729-163-93	TRANSISTOR 2SA639S				
Q605	8-729-245-83	TRANSISTOR 2SC2458				
Q606	8-729-204-83	TRANSISTOR 2SA1048-GR				
		RESISTOR				
R601	1-247-879-00	CARBON	100K	5%	1/6W	
R602	1-247-829-00	CARBON	820	5%	1/6W	
R603	1-247-840-00	CARBON	2.4K	5%	1/6W	
R604	1-202-673-00	SOLID	15M	10%	1/2W	
R605	1-205-687-00	CEMENTED	54K	10%	7W	
R608	1-247-875-00	CARBON	68K	5%	1/6W	
R609	1-247-855-00	CARBON	10K	5%	1/6W	
R611	1-247-833-00	CARBON	1.2K	5%	1/6W	
R612	1-247-825-00	CARBON	560	5%	1/6W	
R613	1-247-889-00	CARBON	270K	5%	1/6W	
R614	1-247-851-00	CARBON	6.8K	5%	1/6W	
R615	1-247-855-00	CARBON	10K	5%	1/8W	
R616	1-217-192-00	WIREWOUND	0.22	10%	2W	F
R617	1-247-831-00	CARBON	1K	5%	1/8W	F
R618	1-247-805-00	CARBON	82	5%	1/6W	
R619	1-205-687-00	CEMENTED	54K	10%	7W	
R620	1-206-690-00	METAL OXIDE	12K	5%	2W	F
R622	1-247-869-00	CARBON	39K	5%	1/6W	
R623	1-247-897-00	CARBON	560K	5%	1/6W	
R624	1-247-871-00	CARBON	47K	5%	1/6W	
R625	1-247-871-00	CARBON	47K	5%	1/6W	
R626	1-247-819-00	CARBON	330	5%	1/6W	
R627	1-247-885-00	CARBON	180K	5%	1/6W	
R628	1-247-873-00	CARBON	56K	5%	1/6W	
R631	1-247-847-00	CARBON	4.7K	5%	1/6W	
R632	1-247-855-00	CARBON	10K	5%	1/6W	
R633	1-247-873-00	CARBON	56K	5%	1/6W	

Ref.No.	Part No.	Description				Remark
R634	1-247-879-00	CARBON	100K	5%	1/6W	
R635	1-247-587-00	CARBON	0.47	5%	1/4W	
R636	1-247-587-00	CARBON	0.47	5%	1/4W	
R637	1-247-823-00	CARBON	470	5%	1/6W	
R639	1-246-980-00	CARBON	3.3	5%	1/8W	F
R640	1-247-847-00	CARBON	4.7K	5%	1/6W	
R641	1-205-680-00	CEMENTED	3.3	5%	10W	
		VARIABLE RESISTOR				
RV601	1-228-721-00	RES, ADJ, CERAMIC CARBON 2.2K				
		TRANSFORMER				
T601 ⚠.	1-441-855-00	TRANSFORMER, HEATER INSULATION				
T602	1-446-194-00	TRANSFORMER, CHOPPER DRIVE				
T603	1-421-623-00	TRANSFORMER, FERRITE (SRT)				
		THERMISTOR				
TH602	1-800-945-00	THERMISTOR S-10K				
⚠THP601.	1-806-165-00	THERMISTOR (POSITIVE)				

****

	♠:1-607-717-00	N BOARD *******			
		CAPACITOR			
C1	1-161-019-00	CERAMIC	0.033MF	10%	25V
C2	1-123-617-00	ELECT	10MF	20%	16V
C3	1-123-617-00	ELECT	10MF	20%	16V
C4	1-108-567-00	MYLAR	0.0033MF	5%	50V
C5	1-123-617-00	ELECT	10MF	20%	16V
C6	1-123-821-00	ELECT	47MF	20%	16V
		DIODE			
D2	8-719-110-32	DIODE PH302B			
		IC			
IC1	8-759-113-73	IC UPC1373H			
		COIL			
L1	1-404-310-00	COIL			

****

	♠:A-1295-719-A	A BOARD, COMPLETE *****************
	4-303-483-00	HEAD, WASHER, TAPPING SCREW
	♠:4-323-833-00	HEAT SINK, PIN OUT
	♠:4-363-404-00	HOLDER, IC
	4-363-414-00	SPACER, MICA
	♠:4-365-811-00	CASE (MAIN), SHIELD, VIF
	♠:4-365-812-00	LID, UPPER, SHIELD CASE, VIF

Ref.No.	Part No.	Description				Remark
	♠:4-365-813-00	LID, BOTTOM, SHIELD CASE, VIF				
		CONNECTOR				
A1	♠:1-508-765-00	3P PLUG (M)				
A2	♠:1-560-125-00	PLUG, CONNECTOR (2.5MM) 5P				
A3	♠:1-560-126-00	PLUG, CONNECTOR (2.5MM PITCH)				
A4	♠:1-508-766-00	4P PLUG (M)				
A5	♠:1-560-124-00	PLUG, CONNECTOR (2.5MM) 4P				
A6	♠:1-560-126-00	PLUG, CONNECTOR (2.5MM) 6P				
A7	♠:1-508-767-00	5P PLUG				
A8	♠:1-560-123-00	PLUG, CONNECTOR (2.5MM PITCH)				
		CAPACITOR				
C102	1-102-038-00	CERAMIC	0.001MF		500V	
C103	1-123-356-00	ELECT	10MF	20%	16V	
C104	1-108-389-00	MYLAR	0.1MF	10%	100V	
C105	1-123-356-00	ELECT	10MF	20%	16V	
C106	1-123-318-00	ELECT	33MF	20%	16V	
C107	1-130-526-51	MYLAR	0.068MF	10%	50V	
C108	1-130-497-00	MYLAR	0.15MF	5%	50V	
C109	1-123-318-00	ELECT	33MF	20%	16V	
C110	1-123-608-00	ELECT	0.22MF	20%	50V	
C201	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C202	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C203	1-102-510-00	CERAMIC	12PF	5%	50V	
C204	1-102-852-00	CERAMIC	47PF	5%	50V	
C205	1-123-380-00	ELECT	1MF	20%	50V	
C206	1-123-379-00	ELECT	0.47MF	20%	50V	
C207	1-123-021-00	ELECT	0.47MF	30%	50V	
C208	1-106-204-00	MYLAR	0.022MF	5%	100V	
C209	1-101-004-00	CERAMIC	0.01MF		50V	
C210	1-102-114-00	CERAMIC	470PF	10%	50V	
C211	1-161-059-00	CERAMIC	0.047MF	10%	50V	
C212	1-161-059-00	CERAMIC	0.047MF	10%	50V	
C213	1-123-321-00	ELECT	220MF	20%	16V	
C214	1-123-356-00	ELECT	10MF	20%	16V	
C215	1-102-121-00	CERAMIC	0.0022MF	10%	50V	
C216	1-102-525-00	CERAMIC	68PF	5%	50V	
C217	1-161-051-00	CERAMIC	0.01MF	10%	50V	
C218	1-123-286-00	ELECT	0.33MF	20%	50V	
C219	1-123-330-00	ELECT	22MF	20%	16V	
C220	1-123-318-00	ELECT	33MF	20%	16V	
C221	1-102-125-00	CERAMIC	0.0047MF	10%	50V	
C222	1-123-356-00	ELECT	10MF	20%	16V	
C223	1-108-430-00	MYLAR	0.056MF	10%	200V	
C251	1-108-371-00	MYLAR	0.0033MF	10%	100V	
C252	1-123-026-00	ELECT	2.2MF		160V	
C253	1-121-757-00	ELECT	33MF		160V	
C254	1-121-246-00	ELECT	4.7MF		160V	
C255	1-123-384-00	ELECT	10MF	20%	100V	
C301	1-102-973-00	CERAMIC	100PF	5%	50V	
C302	1-161-330-00	CERAMIC	0.01MF	30%	25V	
C303	1-123-332-00	ELECT	47MF	20%	25V	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Ref.No.	Part No.	Description				Remark
C304	1-101-006-00	CERAMIC	0.047MF		50V	
C305	1-101-006-00	CERAMIC	0.047MF		50V	
C306	1-161-330-00	CERAMIC	0.01MF	30%	25V	
C307	1-102-700-00	CERAMIC	82PF	5%	50V	
C308	1-102-512-00	CERAMIC	16PF	5%	50V	
C309	1-102-108-00	CERAMIC	150PF	10%	50V	
C310	1-123-379-00	ELECT	0.47MF	20%	50V	
C311	1-108-375-00	MYLAR	0.0068MF	10%	100V	
C312	1-108-375-00	MYLAR	0.0068MF	10%	100V	
C313	1-123-379-00	ELECT	0.47MF	20%	50V	
C314	1-101-006-00	CERAMIC	0.047MF		50V	
C315	1-123-379-00	ELECT	0.47MF	20%	50V	
C316	1-123-380-00	ELECT	1MF	20%	50V	
C317	1-123-380-00	ELECT	1MF	20%	50V	
C318	1-123-356-00	ELECT	10MF	20%	16V	
C319	1-123-331-00	ELECT	33MF	20%	25V	
C320	1-123-356-00	ELECT	10MF	20%	16V	
C321	1-161-330-00	CERAMIC	0.01MF	30%	25V	
C322	1-102-670-00	CERAMIC	18PF	5%	50V	
C323	1-102-668-00	CERAMIC	15PF	5%	50V	
C324	1-161-330-00	CERAMIC	0.01MF	30%	25V	
C325	1-123-332-00	ELECT	47MF	20%	25V	
C326	1-161-330-00	CERAMIC	0.01MF	30%	25V	
C327	1-161-330-00	CERAMIC	0.01MF	30%	25V	
C328	1-161-330-00	CERAMIC	0.01MF	30%	25V	
C329	1-101-888-00	CERAMIC	68PF	5%	50V	
C330	1-161-330-00	CERAMIC	0.01MF	30%	25V	
C331	1-161-051-00	CERAMIC	0.01MF	10%	50V	
C332	1-123-379-00	ELECT	0.47MF	20%	50V	
C333	1-161-270-00	CERAMIC	82PF	5%	50V	
C334	1-123-380-00	ELECT	1MF	20%	50V	
C335	1-123-380-00	ELECT	1MF	20%	50V	
C336	1-161-330-00	CERAMIC	0.01MF	30%	25V	
C337	1-161-330-00	CERAMIC	0.01MF	30%	25V	
C338	1-102-676-00	CERAMIC	68PF	5%	50V	
C339	1-161-330-00	CERAMIC	0.01MF	30%	25V	
C340	1-161-330-00	CERAMIC	0.01MF	30%	25V	
C341	1-102-959-00	CERAMIC	22PF	5%	50V	
C342	1-101-006-00	CERAMIC	0.047MF		50V	
C343	1-161-330-00	CERAMIC	0.01MF	30%	25V	
C344	1-123-380-00	ELECT	1MF	20%	50V	
C345	1-123-356-00	ELECT	10MF	20%	16V	
C346	1-101-006-00	CERAMIC	0.047MF		50V	
C350	1-123-333-00	ELECT	100MF	20%	16V	
C353	1-102-947-00	CERAMIC	10PF	5%	50V	
C354	1-101-884-00	CERAMIC	56PF	5%	50V	
C355	1-102-820-00	CERAMIC	330PF	5%	50V	
C357	1-123-332-00	ELECT	47MF	20%	25V	
C358	1-123-333-00	ELECT	100MF	20%	16V	
C359	1-161-059-00	CERAMIC	0.047MF	10%	50V	
C401	1-102-888-00	CERAMIC	150PF	5%	50V	
C402	1-123-356-00	ELECT	10MF	20%	16V	
C403	1-161-063-00	CERAMIC	0.1MF	10%	50V	

Ref.No.	Part No.	Description				Remark
C404	1-161-330-00	CERAMIC	0.01MF	30%	25V	
C405	1-161-063-00	CERAMIC	0.1MF	10%	50V	
C406	1-161-063-00	CERAMIC	0.1MF	10%	50V	
C407	1-102-806-00	CERAMIC	27PF	5%	50V	
C408	1-101-890-00	CERAMIC	75PF	5%	50V	
C409	1-102-722-00	CERAMIC	27PF	5%	50V	
C410	1-101-890-00	CERAMIC	75PF	5%	50V	
C411	1-123-380-00	ELECT	1MF	20%	50V	
C412	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C413	1-123-379-00	ELECT	0.47MF	20%	50V	
C414	1-123-380-00	ELECT	1MF	20%	50V	
C415	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C416	1-123-379-00	ELECT	0.47MF	20%	50V	
C417	1-102-074-00	CERAMIC	0.001MF	10%	50V	
C418	1-123-332-00	ELECT	47MF	20%	25V	
C419	1-123-380-00	ELECT	1MF	20%	50V	
C420	1-123-333-00	ELECT	100MF	20%	16V	
C421	1-161-063-00	CERAMIC	0.1MF	10%	50V	
C422	1-161-330-00	CERAMIC	0.01MF	30%	25V	
C423	1-123-356-00	ELECT	10MF	20%	16V	
C424	1-108-392-00	MYLAR	0.18MF	10%	100V	
C425	1-161-380-00	CERAMIC	0.0015MF	10%	50V	
C426	1-123-380-00	ELECT	1MF	20%	50V	
C427	1-123-356-00	ELECT	10MF	20%	16V	
C428	1-102-030-00	CERAMIC	330PF	10%	500V	
C429	1-102-114-00	CERAMIC	470PF	10%	50V	
C430	1-123-330-00	ELECT	22MF	20%	16V	
C431	1-123-380-00	ELECT	1MF	20%	50V	
C432	1-161-267-00	CERAMIC	47PF	5%	50V	
C433	1-102-973-00	CERAMIC	100PF	5%	50V	
C434	1-101-006-00	CERAMIC	0.047MF		50V	
C435	1-102-119-00	CERAMIC	0.0015MF	10%	50V	
C436	1-102-121-00	CERAMIC	0.0022MF	10%	50V	
C501	1-108-385-00	MYLAR	0.047MF	10%	100V	
C502	1-102-228-00	CERAMIC	470PF	10%	500V	
C503	1-123-381-00	ELECT	2.2MF	20%	50V	
C504	1-108-367-00	MYLAR	0.0015MF	10%	100V	
C506	1-108-377-00	MYLAR	0.01MF	10%	100V	
C507	1-123-586-00	ELECT	0.1MF	20%	50V	
C508	1-123-380-00	ELECT	1MF	20%	50V	
C509	1-123-380-00	ELECT	1MF	20%	50V	
C510	1-108-381-00	MYLAR	0.022MF	10%	100V	
C511	1-108-369-00	MYLAR	0.0022MF	10%	100V	
C512	1-129-794-00	FILM	0.0033MF	2%	100V	
C513	1-123-356-00	ELECT	10MF	20%	16V	
C514	1-123-321-00	ELECT	220MF	20%	16V	
C515	1-106-212-00	MYLAR	0.047MF	5%	100V	
C516	1-108-381-00	MYLAR	0.022MF	10%	100V	
C517	1-123-356-00	ELECT	10MF	20%	25V	
C518	1-123-356-00	ELECT	10MF	20%	16V	
C519	1-130-640-00	FILM	0.47MF	5%	50V	
C521	1-123-380-00	ELECT	1MF	20%	50V	
C522	1-108-377-00	MYLAR	0.01MF	10%	100V	

Ref.No.	Part No.	Description			Remark
C523	1-123-380-00	ELECT	1MF	20%	50V
C524	1-108-384-00	MYLAR	0.039MF	10%	100V
C525	1-123-321-00	ELECT	220MF	20%	16V
C526	1-123-333-00	ELECT	100MF	20%	16V
C527	1-123-333-00	ELECT	100MF	20%	16V
C528	1-102-820-00	CERAMIC	330PF	5%	50V
C551	1-108-373-00	MYLAR	0.0047MF	10%	100V
C552	1-102-228-00	CERAMIC	470PF	10%	500V
C553	1-123-360-00	ELECT	100MF	20%	50V
C555	1-124-190-00	ELECT	680MF	10%	35V
C556	1-123-349-00	ELECT	1000MF	20%	35V
C572	1-123-332-00	ELECT	47MF	20%	25V
C801	1-108-689-61	MYLAR	0.0056MF	10%	200V
C802	1-102-030-00	CERAMIC	330PF	10%	500V
C803	1-102-327-00	CERAMIC	330PF	15%	1.5KV
C804	1-136-061-00	FILM	0.0078MF	3%	2KV
C805	1-123-024-00	ELECT	33MF		160V
C806	1-102-212-00	CERAMIC	820PF	10%	500V
C807	1-130-684-00	FILM	0.33MF	5%	200V
C808	1-121-806-00	ELECT	10MF		16V
C811	1-108-385-00	MYLAR	0.047MF	10%	100V
C813	1-108-375-00	MYLAR	0.0068MF	10%	100V
C814	1-102-959-00	CERAMIC	22PF	5%	50V
C815	1-123-356-00	ELECT	10MF	20%	25V
C816	1-102-820-00	CERAMIC	330PF	5%	50V
C817	1-162-115-00	CERAMIC	330PF	10%	2KV
C818	1-102-806-00	CERAMIC	27PF	5%	50V
C851	1-123-005-00	ELECT	22MF		250V
C852	1-102-223-00	CERAMIC	0.0047MF	20%	1.6KV
C853	1-102-038-00	CERAMIC	0.001MF		500V
C854	1-123-361-00	ELECT	220MF	20%	50V
C855	1-108-389-00	MYLAR	0.1MF	10%	100V
C856	1-102-038-00	CERAMIC	0.001MF		500V
C857	1-108-425-00	MYLAR	0.022MF	10%	200V
C858	1-102-228-00	CERAMIC	470PF	10%	500V
C859	1-123-323-00	ELECT	470MF	20%	16V
C861	1-102-002-00	CERAMIC	680PF	10%	500V
C871	1-108-381-00	MYLAR	0.022MF	10%	100V
C872	1-123-286-00	ELECT	0.33MF	20%	50V
C873	1-108-379-00	MYLAR	0.015MF	10%	100V
C874	1-136-060-00	FILM	0.047MF	5%	400V

FILTER

CF201	1-404-134-00	TRAP, CERAMIC (5.5MHZ)
CF202	1-527-263-00	CERAMIC FILTER (5.5MHZ)
CF203	1-404-473-00	DISCRIMINATOR, CERAMIC
CF301	1-409-338-00	TRAP, CERAMIC (4.328MHZ)

DIODE

Ref.No.	Part No.	Description	Remark
D201	8-719-100-55	DIODE RD9.1E-B3	
D202	8-719-911-19	DIODE 1SS119	
D203	8-719-102-71	DIODE RD5.6EN1	
D301	8-719-911-19	DIODE 1SS119	
D302	8-719-911-19	DIODE 1SS119	
D303	8-719-911-19	DIODE 1SS119	
D304	8-719-911-19	DIODE 1SS119	
D305	8-719-911-19	DIODE 1SS119	
D308	8-719-920-04	DIODE ERB12-04RK	
D309	8-719-911-19	DIODE 1SS119	
D310	8-719-911-19	DIODE 1SS119	
D311	8-719-911-19	DIODE 1SS119	
D312	8-719-911-19	DIODE 1SS119	
D313	8-719-911-19	DIODE 1SS119	
D314	8-719-911-19	DIODE 1SS119	
D315	8-719-911-19	DIODE 1SS119	
D401	8-719-911-19	DIODE 1SS119	
D501	8-719-911-19	DIODE 1SS119	
D502	8-719-911-19	DIODE 1SS119	
D503	8-719-911-19	DIODE 1SS119	
D551	8-719-920-04	DIODE ERB12-04RK	
D571	8-719-911-19	DIODE 1SS119	
D801	8-719-920-04	DIODE ERB12-04RK	
D802	8-719-920-04	DIODE ERB12-04RK	
D851	8-719-924-06	DIODE ERC24-06S	
D852	8-719-903-09	DIODE V30N	
D853	8-719-901-93	DIODE V19E	
D854	8-719-920-04	DIODE ERB12-04RK	
D855	8-719-901-93	DIODE V19E	
D856	8-719-911-55	DIODE U05G	

DELAY LINE

DL301	1-415-332-00	DELAY LINE, Y
	4-334-952-00	CASE (C), SHIELD; DL301
DL302	1-415-122-31	DELAY LINE

CONNECTOR

DY1	⚠:1-564-038-00	CONNECTOR PLUG, DY (MINI) 6P

IC

IC201	8-752-001-50	IC CX20015
IC202	8-759-800-12	IC LA7920
IC251	8-749-942-00	IC STK420
IC301	8-751-080-00	IC CX108
IC302	8-751-090-10	IC CX109
IC303	8-751-300-00	IC CX130
IC304	8-751-300-00	IC CX130
IC305	8-759-240-19	IC TC4019BP
IC401	8-751-750-00	IC CX175
IC501	8-759-100-60	IC UPC1377C
IC551	8-759-113-78	IC UPC1378H-L
IC571	8-759-979-16	IC CX7916
IC851	8-759-700-06	IC NJM7812B

JACK

J301	1-526-575-00	SOCKET, PLUG

COIL

Ref.No.	Part No.	Description	Remark
L101	1-407-716-00	MICRO INDUCTOR 320UH	
L201	1-408-397-00	MICRO INDUCTOR 1UH	
L202	1-403-413-00	MICRO INDUCTOR 22UH	
L203	1-408-400-00	MICRO INDUCTOR 1.8UH	
L204	1-408-411-00	MICRO INDUCTOR 15UH	
L205	1-408-408-00	MICRO INDUCTOR 8.2UH	
L206	1-408-398-00	MICRO INDUCTOR 1.2UH	
L301	1-408-408-00	MICRO INDUCTOR 8.2UH	
L302	1-408-417-00	MICRO INDUCTOR 47UH	
L303	1-408-415-00	MICRO INDUCTOR 33UH	
L304	1-408-413-00	MICRO INDUCTOR 22UH	
L305	1-408-409-00	MICRO INDUCTOR 10UH	
L306	1-408-409-00	MICRO INDUCTOR 10UH	
L307	1-408-409-00	MICRO INDUCTOR 10UH	
L308	1-408-409-00	MICRO INDUCTOR 10UH	
L309	1-408-418-00	MICRO INDUCTOR 56UH	
L401	1-408-417-00	MICRO INDUCTOR 47UH	
L402	1-408-411-00	MICRO INDUCTOR 15UH	
L403	1-408-411-00	MICRO INDUCTOR 15UH	
L404	1-407-504-00	MICRO INDUCTOR 10MMH	
L405	1-407-508-00	MICRO INDUCTOR 22MMH	
L406	1-408-409-00	MICRO INDUCTOR 10UH	
L501	1-459-215-00	CORE COIL	
L505	1-407-695-00	MICRO INDUCTOR 15UH	
L506	1-407-686-00	MICRO INDUCTOR 2.7UH	
L801	1-408-349-00	COIL, CHOKE	
L802	1-407-366-00	RF CHOKE COIL	
L803	1-407-498-00	MICRO INDUCTOR 3.3MMH	
L804	1-459-466-00	COIL, FERRITE	
L805	1-407-496-00	MICRO INDUCTOR 2.2MMH	
L851	1-407-699-00	MICRO INDUCTOR 33UH	

TRANSISTOR

Ref.No.	Part No.	Description	Remark
Q101	8-729-178-54	TRANSISTOR 2SC2785	
Q201	8-729-204-83	TRANSISTOR 2SA1048-GR	
Q202	8-729-204-83	TRANSISTOR 2SC1048-GR	
Q301	8-724-375-01	TRANSISTOR 2SC403C	
Q302	8-729-245-83	TRANSISTOR 2SC2458	
Q303	8-724-375-01	TRANSISTOR 2SC403C	
Q304	8-724-375-01	TRANSISTOR 2SC403C	
Q305	8-729-245-83	TRANSISTOR 2SC2458	
Q306	8-729-204-83	TRANSISTOR 2SC1048-GR	
Q307	8-729-103-43	TRANSISTOR 2SB734	
Q308	8-729-245-83	TRANSISTOR 2SC2458	
Q309	8-729-245-83	TRANSISTOR 2SC2458	
Q310	8-729-204-83	TRANSISTOR 2SC1048-GR	
Q311	8-729-245-83	TRANSISTOR 2SC2458	
Q312	8-729-245-83	TRANSISTOR 2SC2458	
Q315	8-729-245-83	TRANSISTOR 2SC2458	
Q316	8-729-245-83	TRANSISTOR 2SC2458	
Q317	8-729-245-83	TRANSISTOR 2SC2458	
Q401	8-729-245-83	TRANSISTOR 2SC2458	
Q402	8-729-245-83	TRANSISTOR 2SC2458	
Q403	8-729-245-83	TRANSISTOR 2SC2458	
Q404	8-769-010-35	TRANSISTOR 2SK107	
Q405	8-729-245-83	TRANSISTOR 2SC2458	
Q406	8-729-245-83	TRANSISTOR 2SC2458	
Q407	8-729-204-83	TRANSISTOR 2SC1048-GR	
Q408	8-729-245-83	TRANSISTOR 2SC2458	
Q409	8-729-204-83	TRANSISTOR 2SC1048-GR	
Q571	8-729-245-83	TRANSISTOR 2SC2458	
Q572	8-729-204-83	TRANSISTOR 2SC1048-GR	
Q573	8-729-245-83	TRANSISTOR 2SC2458	
Q574	8-729-245-83	TRANSISTOR 2SC2458	
Q575	8-729-245-83	TRANSISTOR 2SC2458	
Q576	8-729-245-83	TRANSISTOR 2SC2458	
Q577	8-729-245-83	TRANSISTOR 2SC2458	
Q578	8-729-245-83	TRANSISTOR 2SC2458	
Q579	8-729-245-83	TRANSISTOR 2SC2458	
Q580	8-729-245-83	TRANSISTOR 2SC2458	
Q801	8-729-168-82	TRANSISTOR 2SC2688	
Q802	8-729-801-71	TRANSISTOR 2SD1396	
Q803	8-729-245-83	TRANSISTOR 2SC2458	
Q804	8-729-177-43	TRANSISTOR 2SD744-4	
Q805	8-729-245-83	TRANSISTOR 2SC2458	

RESISTOR

Ref.No.	Part No.	Description				Remark
R101	1-247-893-00	CARBON	390K	5%	1/6W	
R102	1-247-872-00	CARBON	51K	5%	1/6W	
R103	1-247-879-00	CARBON	100K	5%	1/6W	
R104	1-247-891-00	CARBON	330K	5%	1/6W	
R105	1-247-855-00	CARBON	10K	5%	1/6W	
R106	1-247-823-00	CARBON	470	5%	1/6W	
R107	1-247-831-00	CARBON	1K	5%	1/6W	
R108	1-247-831-00	CARBON	1K	5%	1/6W	
R109	1-247-873-00	CARBON	56K	5%	1/6W	
R201	1-247-831-00	CARBON	1K	5%	1/6W	
R202	1-247-839-00	CARBON	2.2K	5%	1/6W	
R203	1-247-843-00	CARBON	3.3K	5%	1/6W	
R204	1-247-843-00	CARBON	3.3K	5%	1/6W	
R205	1-247-831-00	CARBON	1K	5%	1/6W	
R206	1-247-831-00	CARBON	1K	5%	1/6W	
R207	1-247-865-00	CARBON	27K	5%	1/6W	
R208	1-247-865-00	CARBON	27K	5%	1/6W	
R209	1-247-038-00	CARBON	560	5%	1/8W	F
R210	1-247-839-00	CARBON	2.2K	5%	1/6W	
R211	1-247-827-00	CARBON	680	5%	1/6W	
R212	1-247-855-00	CARBON	10K	5%	1/6W	
R213	1-247-819-00	CARBON	330	5%	1/6W	
R214	1-247-826-00	CARBON	620	5%	1/6W	
R215	1-247-817-00	CARBON	270	5%	1/6W	
R216	1-247-807-00	CARBON	100	5%	1/6W	
R217	1-247-831-00	CARBON	1K	5%	1/6W	
R218	1-246-467-00	CARBON	560	5%	1/4W	
R219	1-247-883-00	CARBON	150K	5%	1/6W	
R220	1-247-805-00	CARBON	82	5%	1/6W	
R221	1-206-483-00	METAL OXIDE	68	5%	2W	F
R222	1-247-895-00	CARBON	470K	5%	1/6W	
R223	1-247-855-00	CARBON	10K	5%	1/6W	
R224	1-247-839-00	CARBON	2.2K	5%	1/6W	
R228	1-247-845-00	CARBON	3.9K	5%	1/6W	
R241	1-247-841-00	CARBON	2.7K	5%	1/6W	
R251	1-202-359-35	SOLID	100	10%	1/4W	
R252	1-247-879-00	CARBON	100K	5%	1/6W	
R253	1-247-865-00	CARBON	27K	5%	1/6W	
R254	1-213-134-00	METAL OXIDE	180	5%	1W	F
R301	1-247-807-00	CARBON	100	5%	1/6W	
R302	1-247-835-00	CARBON	1.5K	5%	1/6W	
R303	1-247-839-00	CARBON	2.2K	5%	1/6W	
R304	1-247-831-00	CARBON	1K	5%	1/6W	
R305	1-247-857-00	CARBON	12K	5%	1/6W	
R306	1-247-849-00	CARBON	5.6K	5%	1/6W	
R307	1-247-833-00	CARBON	1.2K	5%	1/6W	
R308	1-247-813-00	CARBON	180	5%	1/6W	
R309	1-247-817-00	CARBON	270	5%	1/6W	
R310	1-247-843-00	CARBON	3.3K	5%	1/6W	
R311	1-247-863-00	CARBON	22K	5%	1/6W	
R312	1-247-843-00	CARBON	3.3K	5%	1/6W	
R313	1-247-853-00	CARBON	8.2K	5%	1/6W	
R314	1-247-863-00	CARBON	22K	5%	1/6W	
R315	1-247-843-00	CARBON	3.3K	5%	1/6W	
R316	1-247-871-00	CARBON	47K	5%	1/6W	
R317	1-247-871-00	CARBON	47K	5%	1/6W	
R318	1-247-853-00	CARBON	8.2K	5%	1/6W	
R319	1-247-837-00	CARBON	1.8K	5%	1/6W	
R320	1-247-841-00	CARBON	2.7K	5%	1/6W	
R321	1-247-845-00	CARBON	3.9K	5%	1/6W	
R322	1-247-841-00	CARBON	2.7K	5%	1/6W	
R323	1-247-869-00	CARBON	39K	5%	1/6W	
R325	1-247-799-00	CARBON	47	5%	1/6W	
R326	1-247-847-00	CARBON	4.7K	5%	1/6W	
R327	1-247-877-00	CARBON	82K	5%	1/6W	
R328	1-247-823-00	CARBON	470	5%	1/6W	
R329	1-247-837-00	CARBON	1.8K	5%	1/6W	
R330	1-247-831-00	CARBON	1K	5%	1/6W	
R331	1-247-843-00	CARBON	3.3K	5%	1/6W	
R332	1-247-841-00	CARBON	2.7K	5%	1/6W	
R333	1-247-863-00	CARBON	22K	5%	1/6W	
R334	1-247-855-00	CARBON	10K	5%	1/6W	
R335	1-247-841-00	CARBON	2.7K	5%	1/6W	
R336	1-247-875-00	CARBON	68K	5%	1/6W	
R337	1-247-823-00	CARBON	470	5%	1/6W	
R338	1-247-841-00	CARBON	2.7K	5%	1/6W	
R339	1-247-855-00	CARBON	10K	5%	1/6W	
R340	1-247-845-00	CARBON	3.9K	5%	1/6W	
R341	1-247-821-00	CARBON	390	5%	1/6W	
R342	1-247-831-00	CARBON	1K	5%	1/6W	
R343	1-247-863-00	CARBON	22K	5%	1/6W	
R344	1-247-853-00	CARBON	8.2K	5%	1/6W	
R345	1-247-835-00	CARBON	1.5K	5%	1/6W	
R346	1-247-879-00	CARBON	100K	5%	1/6W	
R347	1-247-843-00	CARBON	3.3K	5%	1/6W	
R348	1-247-867-00	CARBON	33K	5%	1/6W	
R349	1-247-823-00	CARBON	470	5%	1/6W	
R350	1-247-859-00	CARBON	15K	5%	1/6W	
R351	1-247-843-00	CARBON	3.3K	5%	1/6W	
R356	1-247-823-00	CARBON	470	5%	1/6W	
R357	1-244-869-00	CARBON	680	5%	1/2W	
R358	1-247-807-00	CARBON	100	5%	1/6W	
R359	1-247-823-00	CARBON	470	5%	1/6W	
R360	1-247-831-00	CARBON	1K	5%	1/6W	
R361	1-247-807-00	CARBON	100	5%	1/6W	
R362	1-247-831-00	CARBON	1K	5%	1/6W	
R363	1-247-873-00	CARBON	56K	5%	1/6W	
R364	1-247-847-00	CARBON	4.7K	5%	1/6W	
R365	1-247-831-00	CARBON	1K	5%	1/6W	
R366	1-247-871-00	CARBON	47K	5%	1/6W	
R367	1-247-871-00	CARBON	47K	5%	1/6W	
R368	1-247-807-00	CARBON	100	5%	1/6W	
R369	1-247-871-00	CARBON	47K	5%	1/6W	
R370	1-247-875-00	CARBON	68K	5%	1/6W	
R371	1-247-889-00	CARBON	270K	5%	1/6W	
R372	1-247-857-00	CARBON	12K	5%	1/6W	
R373	1-247-855-00	CARBON	10K	5%	1/6W	
R374	1-247-853-00	CARBON	8.2K	5%	1/6W	
R375	1-247-835-00	CARBON	1.5K	5%	1/6W	
R376	1-247-841-00	CARBON	2.7K	5%	1/6W	
R378	1-247-825-00	CARBON	560	5%	1/6W	
R379	1-247-894-00	CARBON	430K	5%	1/6W	
R381	1-247-825-00	CARBON	560	5%	1/6W	
R382	1-247-855-00	CARBON	10K	5%	1/6W	
R384	1-247-825-00	CARBON	560	5%	1/6W	
R385	1-247-887-00	CARBON	220K	5%	1/6W	
R386	1-247-829-00	CARBON	820	5%	1/6W	
R387	1-247-867-00	CARBON	33K	5%	1/6W	
R388	1-247-847-00	CARBON	4.7K	5%	1/6W	
R390	1-247-839-00	CARBON	2.2K	5%	1/6W	
R391	1-247-839-00	CARBON	2.2K	5%	1/6W	
R393	1-247-839-00	CARBON	2.2K	5%	1/6W	
R394	1-247-839-00	CARBON	2.2K	5%	1/6W	
R395	1-247-855-00	CARBON	10K	5%	1/6W	
R396	1-247-875-00	CARBON	68K	5%	1/6W	
R397	1-247-839-00	CARBON	2.2K	5%	1/6W	
R398	1-247-839-00	CARBON	2.2K	5%	1/6W	
R399	1-247-855-00	CARBON	10K	5%	1/6W	
R401	1-247-815-00	CARBON	220	5%	1/6W	
R402	1-247-831-00	CARBON	1K	5%	1/6W	
R403	1-247-827-00	CARBON	680	5%	1/6W	
R404	1-247-823-00	CARBON	470	5%	1/6W	
R405	1-247-835-00	CARBON	1.5K	5%	1/6W	

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Ref.No.	Part No.	Description				Remark
R406	1-247-813-00	CARBON	180	5%	1/6W	
R407	1-247-839-00	CARBON	2.2K	5%	1/6W	
R408	1-247-815-00	CARBON	220	5%	1/6W	
R409	1-247-815-00	CARBON	220	5%	1/6W	
R410	1-247-871-00	CARBON	47K	5%	1/6W	
R411	1-247-867-00	CARBON	33K	5%	1/6W	
R412	1-247-891-00	CARBON	330K	5%	1/6W	
R413	1-247-821-00	CARBON	390	5%	1/6W	
R414	1-247-821-00	CARBON	390	5%	1/6W	
R415	1-247-841-00	CARBON	2.7K	5%	1/6W	
R416	1-247-825-00	CARBON	560	5%	1/6W	
R417	1-247-847-00	CARBON	4.7K	5%	1/6W	
R418	1-247-843-00	CARBON	3.3K	5%	1/6W	
R419	1-247-835-00	CARBON	1.5K	5%	1/6W	
R420	1-247-875-00	CARBON	68K	5%	1/6W	
R421	1-247-833-00	CARBON	1.2K	5%	1/6W	
R422	1-247-825-00	CARBON	560	5%	1/6W	
R423	1-247-867-00	CARBON	33K	5%	1/6W	
R424	1-247-863-00	CARBON	22K	5%	1/6W	
R425	1-247-835-00	CARBON	1.5K	5%	1/6W	
R426	1-247-875-00	CARBON	68K	5%	1/6W	
R427	1-247-855-00	CARBON	10K	5%	1/6W	
R428	1-247-873-00	CARBON	56K	5%	1/6W	
R429	1-247-847-00	CARBON	4.7K	5%	1/6W	
R430	1-247-831-00	CARBON	1K	5%	1/6W	
R431	1-247-847-00	CARBON	4.7K	5%	1/6W	
R432	1-247-859-00	CARBON	15K	5%	1/6W	
R433	1-247-849-00	CARBON	5.6K	5%	1/6W	
R434	1-247-855-00	CARBON	10K	5%	1/6W	
R435	1-247-855-00	CARBON	10K	5%	1/6W	
R436	1-247-831-00	CARBON	1K	5%	1/6W	
R437	1-247-839-00	CARBON	2.2K	5%	1/6W	
R439	1-247-855-00	CARBON	10K	5%	1/6W	
R440	1-247-843-00	CARBON	3.3K	5%	1/6W	
R441	1-247-843-00	CARBON	3.3K	5%	1/6W	
R442	1-247-895-00	CARBON	470K	5%	1/6W	
R443	1-247-871-00	CARBON	47K	5%	1/6W	
R444	1-247-871-00	CARBON	47K	5%	1/6W	
R501	1-247-819-00	CARBON	330	5%	1/6W	
R502	1-247-817-00	CARBON	270	5%	1/6W	
R503	1-247-613-00	CARBON	6.8K	5%	1/8W	
R504	1-247-877-00	CARBON	82K	5%	1/6W	
R505	1-247-843-00	CARBON	3.3K	5%	1/6W	
R506	1-247-868-00	CARBON	36K	5%	1/6W	
R507	1-247-857-00	CARBON	12K	5%	1/6W	
R508	1-247-855-00	CARBON	10K	5%	1/6W	
R509	1-247-861-00	CARBON	18K	5%	1/6W	
R510	1-247-859-00	CARBON	15K	5%	1/6W	
R511	1-247-877-00	CARBON	82K	5%	1/6W	
R512	1-213-158-00	METAL OXIDE	18K	5%	1W	F
R513	1-247-819-00	CARBON	330	5%	1/6W	
R514	1-215-459-00	METAL	39K	1%	1/6W	
R515	1-247-849-00	CARBON	5.6K	5%	1/6W	

Ref.No.	Part No.	Description				Remark
R516	1-247-844-00	CARBON	3.6K	5%	1/6W	
R517	1-247-850-00	CARBON	6.2K	5%	1/6W	
R518	1-247-844-00	CARBON	3.6K	5%	1/6W	
R519	1-247-840-00	CARBON	2.4K	5%	1/6W	
R520	1-247-813-00	CARBON	180	5%	1/6W	
R521	1-247-830-00	CARBON	910	5%	1/6W	
R522	1-247-873-00	CARBON	56K	5%	1/6W	
R523	1-247-769-00	CARBON	2.7	5%	1/6W	
R524	1-215-475-00	METAL	180K	1%	1/6W	
R525	1-215-455-00	METAL	27K	1%	1/6W	
R526	1-247-864-00	CARBON	24K	5%	1/6W	
R527	1-247-843-00	CARBON	3.3K	5%	1/6W	
R528	1-247-845-00	CARBON	3.9K	5%	1/6W	
R529	1-215-461-00	METAL	47K	1%	1/6W	
R530	1-247-005-00	CARBON	100	5%	1/4W	F
R531	1-247-855-00	CARBON	10K	5%	1/6W	
R532	1-246-469-00	CARBON	680	5%	1/4W	
R533	1-247-817-00	CARBON	270	5%	1/6W	
R534	1-247-855-00	CARBON	10K	5%	1/6W	
R535	1-247-831-00	CARBON	1K	5%	1/6W	
R536	1-215-477-00	METAL	220K	1%	1/6W	
R541	1-247-867-00	CARBON	33K	5%	1/6W	
R542	1-247-871-00	CARBON	47K	5%	1/6W	
R543	1-247-853-00	CARBON	8.2K	5%	1/6W	
R544	1-247-859-00	CARBON	15K	5%	1/6W	
R551	1-247-783-00	CARBON	10	5%	1/8W	F
R552	1-244-859-00	CARBON	270	5%	1/2W	
R553	1-212-364-00	METAL OXIDE	2.2	5%	1W	F
R554	1-246-993-00	CARBON	470	5%	1/8W	F
R571	1-247-877-00	CARBON	82K	5%	1/6W	
R572	1-247-855-00	CARBON	10K	5%	1/6W	
R573	1-247-861-00	CARBON	18K	5%	1/6W	
R574	1-247-855-00	CARBON	10K	5%	1/6W	
R575	1-247-839-00	CARBON	2.2K	5%	1/6W	
R576	1-247-883-00	CARBON	150K	5%	1/6W	
R577	1-247-867-00	CARBON	33K	5%	1/6W	
R578	1-244-875-51	CARBON	1.2K	5%	1/2W	
R579	1-247-855-00	CARBON	10K	5%	1/6W	
R580	1-247-861-00	CARBON	18K	5%	1/6W	
R581	1-247-841-00	CARBON	2.7K	5%	1/6W	
R582	1-247-849-00	CARBON	5.6K	5%	1/6W	
R583	1-247-871-00	CARBON	47K	5%	1/6W	
R584	1-247-863-00	CARBON	22K	5%	1/6W	
R585	1-247-871-00	CARBON	47K	5%	1/6W	
R586	1-247-867-00	CARBON	33K	5%	1/6W	
R587	1-247-867-00	CARBON	33K	5%	1/6W	
R588	1-247-861-00	CARBON	18K	5%	1/6W	
R589	1-247-871-00	CARBON	47K	5%	1/6W	
R590	1-247-871-00	CARBON	47K	5%	1/6W	
R591	1-247-847-00	CARBON	4.7K	5%	1/6W	
R801	1-247-819-00	CARBON	330	5%	1/6W	
R802	1-247-831-00	CARBON	1K	5%	1/6W	
R803	1-206-737-00	METAL OXIDE	3.3K	5%	3W	F

Ref.No.	Part No.	Description				Remark
R804	1-212-376-00	METAL OXIDE	22	5%	1W	F
R805	1-211-459-00	CARBON	2.2K	5%	1/8W	F
R806	1-213-139-00	METAL OXIDE	470	5%	1W	F
R807	1-247-852-00	CARBON	7.5K	5%	1/6W	
R811	1-247-863-00	CARBON	22K	5%	1/6W	
R812	1-247-831-00	CARBON	1K	5%	1/6W	
R813	1-247-831-00	CARBON	1K	5%	1/6W	
R814	1-247-857-00	CARBON	12K	5%	1/6W	
R815	1-247-807-00	CARBON	100	5%	1/6W	
R851	1-246-979-00	CARBON	1.2	5%	1/8W	F
R852	1-247-831-00	CARBON	1K	5%	1/8W	F
R853	1-247-636-00	CARBON	0.47	5%	1/8W	F
R854	1-247-815-00	CARBON	220	5%	1/6W	
R855	1-202-597-00	SOLID	10K	10%	1/2W	
R856	1-246-493-00	CARBON	6.8K	5%	1/4W	
R857	1-246-528-00	CARBON	200K	5%	1/4W	
R858	1-202-609-00	SOLID	33K	10%	1/2W	
R861	1-247-863-00	CARBON	22K	5%	1/6W	
R871	1-202-589-00	SOLID	4.7K	10%	1/2W	
R872	1-247-867-00	CARBON	33K	5%	1/6W	
R873	1-247-847-00	CARBON	4.7K	5%	1/6W	
R874	1-246-988-00	CARBON	56	5%	1/8W	F
R875	1-213-130-00	METAL OXIDE	82	5%	1W	F
R876	1-247-845-00	CARBON	3.9K	5%	1/6W	
R877	1-212-372-00	METAL OXIDE	10	5%	1W	F

VARIABLE RESISTOR

RV201	1-228-723-00	RES, ADJ, CERAMIC CARBON 4.7K
RV301	1-228-859-00	RES, VAR, CARBON 10K
RV302	1-230-198-00	RES, VAR, CARBON 5K
RV303	1-230-111-00	RES, VAR, CARBON 20K
RV304	1-230-197-00	RES, VAR, CARBON 500
RV305	1-228-723-00	RES, ADJ, CERAMIC CARBON 4.7K
RV306	1-228-718-00	RES, ADJ, CERAMIC CARBON 330
RV307	1-228-721-00	RES, ADJ, CERAMIC CARBON 2.2K
RV501	1-228-160-11	RES, ADJ, METAL GLAZE 5K
RV502	1-228-719-00	RES, ADJ, CERAMIC CARBON 470
RV503	1-228-859-00	RES, VAR, CARBON 10K
RV551	1-224-250-XX	RES, ADJ, METAL GLAZE 2.2K
RV801	1-223-102-00	RES, ADJ, WIREWOUND 120

FILTER

SF201	1-404-323-00	SAWF (38.9MHZ)

SPARK GAP

SG801	1-519-063-XX	DISCHARGING GAP

TRANSFORMER

T201	1-404-464-00	COIL, VIF
T202	1-404-465-00	COIL, VIF (MOLD TYPE)
T203	1-404-489-00	COIL
T251 ⚠	**1-427-529-00**	**TRANSFORMER, OUTPUT (SOT)**
T301	1-425-927-00	TRANSFORMER, BANDPASS (BPT)

Ref.No.	Part No.	Description	Remark
T302	1-404-081-00	TRANSFOMER, DELAY ADJUST	
T303	1-405-733-00	COIL, OSCILLATOR, APC	
T304	1-425-928-00	TRANSFORMER, DELAY ADJUSTING	
T401	1-404-146-00	TRANSFORMER	
T402	1-407-573-00	COIL, VARIABLE 47UH	
T403	1-407-573-00	COIL, VARIABLE 47UH	
T801	1-437-131-00	TRANSFORMER, DRIVE	
T802	1-421-268-00	H.PCT	
T851 ⚠	**1-439-311-00**	**TRANSFORMER ASSY, FLYBACK**	

THERMESTOR

TH501	1-806-213-00	THERMISTOR

TUNER

TU101 ⚠	**1-463-350-31**	**TUNER (BT-881)**

CRYSTAL

X301	1-527-345-00	CRYSTAL, OSC

****

●:1-610-112-00 M1 BOARD
****

●:1-556-894-00 CABLE, WITH PIN
●:1-560-123-00 PLUG, CONNECTOR (2.5MM) 3P
●:1-560-123-00 PLUG, CONNECTOR (2.5MM PITCH)

CAPACITOR

C1001 ⚠	**1-102-395-00**	**CERAMIC**	**330PF**	**20%**	**1.6KV**
C1002 ⚠	**1-102-395-00**	**CERAMIC**	**330PF**	**20%**	**1.6KV**

DIODE

D1001	8-719-911-19	DIODE 1SS119

JACK

J1001	1-562-326-00	SOCKET, ANT

NEON LAMP

NL1001	1-519-262-00	LAMP, NEON

RESISTOR

R1001	1-246-515-00	CARBON	56K	5%	1/4W
RL1001	1-515-511-00	RELAY, HIGH FREQUENCY			

SWITCH

S1001	1-554-552-00	SWITCH, PUSH

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Ref.No. Part No. Description Remark

●:1-610-109-00 M2 BOARD
****

●:4-365-850-00 HOLDER, LED

DIODE

D2001	8-719-106-34	DIODE SR632D
D2002	8-719-106-34	DIODE SR632D
D2003	8-719-911-19	DIODE 1SS119
D2004	8-719-911-19	DIODE 1SS119
D2005	8-719-911-19	DIODE 1SS119
D2006	8-719-911-19	DIODE 1SS119

SWITCH

S101	1-553-651-00	SWITCH, SLIDE
S102	1-554-534-00	SWITCH, SLIDE
S103	1-553-075-00	SWITCH, PUSH
S104	1-553-075-00	SWITCH, PUSH
S105	1-553-075-00	SWITCH, PUSH
S106	1-553-075-00	SWITCH, PUSH
S107	1-553-075-00	SWITCH, PUSH
S108	1-553-075-00	SWITCH, PUSH
S109	1-553-075-00	SWITCH, PUSH
S110	1-553-075-00	SWITCH, PUSH

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●:A-1301-479-A M3 BOARD, COMPLETE
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●:1-508-768-00 6P PLUG
●:1-560-123-00 PLUG, CONNECTOR (2.5MM) 3P
●:1-560-123-00 PLUG, CONNECTOR (2.5MM PITCH)
●:1-560-124-00 PLUG, CONNECTOR (2.5MM) 4P
●:1-560-125-00 PLUG, CONNECTOR (2.5MM) 5P

●:1-560-126-00 PLUG, CONNECTOR (2.5MM) 6P
●:1-560-290-00 PLUG, CONNECTOR (2.5MM PITCH)
9-911-837-XX CUSHION, FILTER
4-022-501-01 CASE (MAIN), SHIELD, DET
4-022-525-01 LID, SHIELD CASE, DET

●:4-365-811-00 CASE (MAIN), SHIELD, VIF
●:4-365-813-00 LID, BOTTOM, SHIELD CASE, VIF

CAPACITOR

C150	1-102-115-00	CERAMIC	560PF	10%	50V
C151	1-102-510-00	CERAMIC	12PF	5%	50V
C152	1-123-622-00	ELECT	22MF	20%	16V
C153	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C154	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C155	1-123-622-00	ELECT	22MF	20%	16V
C156	1-123-332-00	ELECT	47MF	20%	25V
C158	1-123-617-00	ELECT	10MF	20%	16V
C160	1-102-973-00	CERAMIC	100PF	5%	50V
C161	1-101-884-00	CERAMIC	56PF	5%	50V

Ref.No.	Part No.	Description			Remark
C162	1-102-110-00	CERAMIC	220PF	10%	50V
C163	1-102-110-00	CERAMIC	220PF	10%	50V
C164	1-123-332-00	ELECT	47MF	20%	25V
C165	1-102-106-00	CERAMIC	100PF	10%	50V
C166	1-123-608-00	ELECT	0.22MF	20%	50V
C167	1-101-880-00	CERAMIC	47PF	5%	50V
C168	1-108-561-00	MYLAR	0.0018MF	5%	50V
C169	1-123-617-00	ELECT	10MF	20%	16V
C170	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C171	1-108-579-00	MYLAR	0.01MF	5%	50V
C172	1-123-610-00	ELECT	0.47MF	20%	50V
C173	1-102-110-00	CERAMIC	220PF	10%	50V
C174	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C175	1-123-380-00	ELECT	1MF	20%	50V
C176	1-123-478-51	ELECT	1000MF	20%	10V
C177	1-108-563-00	MYLAR	0.0022MF	5%	50V
C178	1-102-978-00	CERAMIC	220PF	5%	50V
C179	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C180	1-102-947-00	CERAMIC	10PF	5%	50V
C181	1-102-120-00	CERAMIC	0.0018MF	10%	50V
C182	1-102-108-00	CERAMIC	150PF	10%	50V
C183	1-102-113-00	CERAMIC	390PF	10%	50V
C184	1-102-121-00	CERAMIC	0.0022MF	10%	50V
C185	1-102-125-00	CERAMIC	0.0047MF	10%	50V
C187	1-102-074-00	CERAMIC	0.001MF	10%	50V
C188	1-102-074-00	CERAMIC	0.001MF	10%	50V
C189	1-102-074-00	CERAMIC	0.001MF	10%	50V
C190	1-102-110-00	CERAMIC	220PF	10%	50V
C191	1-161-830-00	CERAMIC	0.0047MF		500V
C192	1-123-617-00	ELECT	10MF	20%	16V
C193	1-102-074-00	CERAMIC	0.001MF	10%	50V
C197	1-102-115-00	CERAMIC	560PF	10%	50V
C198	1-102-114-00	CERAMIC	470PF	10%	50V
C199	1-123-447-00	ELECT	0.22MF	20%	50V
C199	1-123-608-00	ELECT	0.22MF	20%	50V

DIODE

D152	8-719-102-72	DIODE RD5.6E-N3
D153	8-719-911-19	DIODE 1SS119
D154	8-719-911-19	DIODE 1SS119
D155	8-719-911-19	DIODE 1SS119
D157	8-719-911-19	DIODE 1SS119
D158	8-719-911-19	DIODE 1SS119
D159	8-719-911-19	DIODE 1SS119
D160	8-719-911-19	DIODE 1SS119
D161	8-719-102-59	DIODE RD3.9EN1

IC

IC152	8-759-220-00	IC TC40H000P
IC153	8-759-101-84	IC CX522-032
IC154	8-759-907-22	IC MB88301A
IC155	8-757-959-00	IC CX7959
IC156	8-759-240-11	IC TC4011BP

Ref.No.	Part No.	Description				Remark
IC158	8-759-157-40	IC UPC574J				
		JACK				
J151	1-526-575-00	SOCKET, PLUG				
		COIL				
L151	1-408-405-00	MICRO INDUCTOR 4.7UH				
L152	1-408-405-00	MICRO INDUCTOR 4.7UH				
L153	1-408-405-00	MICRO INDUCTOR 4.7UH				
		TRANSISTOR				
Q152	8-729-245-83	TRANSISTOR 2SC2458				
Q153	8-729-245-83	TRANSISTOR 2SC2458				
Q154	8-729-245-83	TRANSISTOR 2SC2458				
Q155	8-729-245-83	TRANSISTOR 2SC2458				
Q156	8-729-204-83	TRANSISTOR 2SA1048-GR				
Q157	8-729-245-83	TRANSISTOR 2SC2458				
Q158	8-729-245-83	TRANSISTOR 2SC2458				
Q159	8-729-245-83	TRANSISTOR 2SC2458				
Q160	8-729-245-83	TRANSISTOR 2SC2458				
Q161	8-729-245-83	TRANSISTOR 2SC2458				
Q162	8-729-177-33	TRANSISTOR 2SD773-4				
Q163	8-723-304-00	TRANSISTOR 2SK43-4				
Q166	8-729-245-83	TRANSISTOR 2SC2458				
		RESISTOR				
R107	1-247-855-00	CARBON	10K	5%	1/6W	
R108	1-247-847-00	CARBON	4.7K	5%	1/6W	
R110	1-247-849-00	CARBON	5.6K	5%	1/6W	
R111	1-247-831-00	CARBON	1K	5%	1/6W	
R114	1-247-879-00	CARBON	100K	5%	1/6W	
R115	1-247-855-00	CARBON	10K	5%	1/6W	
R116	1-247-883-00	CARBON	150K	5%	1/6W	
R117	1-247-809-00	CARBON	120	5%	1/6W	
R118	1-247-855-00	CARBON	10K	5%	1/6W	
R119	1-247-831-00	CARBON	1K	5%	1/6W	
R120	1-246-535-00	CARBON	390K	5%	1/4W	
R121	1-247-855-00	CARBON	10K	5%	1/6W	
R122	1-247-831-00	CARBON	1K	5%	1/6W	
R123	1-247-855-00	CARBON	10K	5%	1/6W	
R124	1-247-869-00	CARBON	39K	5%	1/6W	
R125	1-247-896-00	CARBON	510K	5%	1/6W	
R126	1-247-855-00	CARBON	10K	5%	1/6W	
R127	1-247-831-00	CARBON	1K	5%	1/6W	
R128	1-247-855-00	CARBON	10K	5%	1/6W	
R129	1-247-855-00	CARBON	10K	5%	1/6W	
R130	1-247-819-00	CARBON	330	5%	1/6W	
R131	1-247-809-00	CARBON	120	5%	1/6W	
R132	1-247-863-00	CARBON	22K	5%	1/6W	
R133	1-247-849-00	CARBON	5.6K	5%	1/6W	
R134	1-247-849-00	CARBON	5.6K	5%	1/6W	
R135	1-247-849-00	CARBON	5.6K	5%	1/6W	

Ref.No.	Part No.	Description				Remark
R136	1-247-855-00	CARBON	10K	5%	1/6W	
R137	1-247-857-00	CARBON	12K	5%	1/6W	
R139	1-247-895-00	CARBON	470K	5%	1/6W	
R140	1-247-859-00	CARBON	15K	5%	1/6W	
R141	1-247-867-00	CARBON	33K	5%	1/6W	
R142	1-247-857-00	CARBON	12K	5%	1/6W	
R143	1-247-855-00	CARBON	10K	5%	1/6W	
R144	1-247-869-00	CARBON	39K	5%	1/6W	
R145	1-206-688-00	METAL OXIDE	10K	5%	2W	F
R146	1-247-872-00	CARBON	51K	5%	1/6W	
R147	1-247-831-00	CARBON	1K	5%	1/6W	
R148	1-247-887-00	CARBON	220K	5%	1/6W	
R149	1-247-879-00	CARBON	100K	5%	1/6W	
R150	1-247-879-00	CARBON	100K	5%	1/6W	
R151	1-247-831-00	CARBON	1K	5%	1/6W	
R152	1-215-444-00	METAL	9.1K	1%	1/6W	
R153	1-215-445-00	METAL	10K	1%	1/6W	
R154	1-247-831-00	CARBON	1K	5%	1/6W	
R155	1-247-855-00	CARBON	10K	5%	1/6W	
R156	1-247-855-00	CARBON	10K	5%	1/6W	
R157	1-247-867-00	CARBON	33K	5%	1/6W	
R158	1-247-867-00	CARBON	33K	5%	1/6W	
R159	1-247-869-00	CARBON	39K	5%	1/6W	
R160	1-247-869-00	CARBON	39K	5%	1/6W	
R161	1-247-869-00	CARBON	39K	5%	1/6W	
R162	1-247-865-00	CARBON	27K	5%	1/6W	
R163	1-247-865-00	CARBON	27K	5%	1/6W	
R164	1-247-865-00	CARBON	27K	5%	1/6W	
R165	1-247-869-00	CARBON	39K	5%	1/6W	
R166	1-247-869-00	CARBON	39K	5%	1/6W	
R167	1-247-869-00	CARBON	39K	5%	1/6W	
R168	1-247-869-00	CARBON	39K	5%	1/6W	
R169	1-247-831-00	CARBON	1K	5%	1/6W	
R170	1-247-831-00	CARBON	1K	5%	1/6W	
R171	1-247-831-00	CARBON	1K	5%	1/6W	
R172	1-247-831-00	CARBON	1K	5%	1/6W	
R173	1-247-877-00	CARBON	82K	5%	1/6W	
R174	1-247-831-00	CARBON	1K	5%	1/6W	
R175	1-247-821-00	CARBON	390	5%	1/6W	
R176	1-247-821-00	CARBON	390	5%	1/6W	
R177	1-246-497-00	CARBON	10K	5%	1/4W	
R178	1-247-879-00	CARBON	100K	5%	1/6W	
R179	1-247-855-00	CARBON	10K	5%	1/6W	
R180	1-247-831-00	CARBON	1K	5%	1/6W	
R181	1-247-831-00	CARBON	1K	5%	1/6W	
R182	1-247-831-00	CARBON	1K	5%	1/6W	
R183	1-247-831-00	CARBON	1K	5%	1/6W	
R184	1-247-831-00	CARBON	1K	5%	1/6W	
R185	1-247-855-00	CARBON	10K	5%	1/6W	
R187	1-247-831-00	CARBON	1K	5%	1/6W	
R188	1-247-871-00	CARBON	47K	5%	1/6W	
R189	1-247-855-00	CARBON	10K	5%	1/6W	
R190	1-247-831-00	CARBON	1K	5%	1/6W	

Ref.No.	Part No.	Description				Remark
R191	1-247-831-00	CARBON	1K	5%	1/6W	
R192	1-215-484-31	METAL	430K	1%	1/6W	
R193	1-247-831-00	CARBON	1K	5%	1/6W	
R194	1-247-885-00	CARBON	180K	5%	1/6W	
R195	1-247-879-00	CARBON	100K	5%	1/6W	
R196	1-247-863-00	CARBON	22K	5%	1/6W	
R197	1-247-871-00	CARBON	47K	5%	1/6W	
R198	1-247-888-00	CARBON	240K	5%	1/6W	
R199	1-247-873-00	CARBON	56K	5%	1/6W	

VARIABLE RESISTOR

RV151	1-228-725-00	RES, ADJ, CERAMIC CARBON 22K

CRYSTAL

X151	1-527-589-00	OSCILLATOR, CERAMIC

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♠:A-1330-431-A C BOARD, COMPLETE
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	1-526-762-00	SOCKET, CRT

CAPACITOR

C701	1-102-824-00	CERAMIC	470PF	5%	50V
C702	1-102-822-00	CERAMIC	390PF	5%	50V
C703	1-102-822-00	CERAMIC	390PF	5%	50V
C704	1-102-155-00	CERAMIC	330PF	20%	2KV
C705	1-123-356-00	ELECT	10MF	20%	25V
C752	1-129-718-00	FILM	0.022MF	10%	630V
C753	1-162-116-00	CERAMIC	680PF	10%	2KV

COIL

L701	1-408-421-00	MICRO INDUCTOR 100UH
L751	1-407-364-00	COIL, SPOOK CHOKE

TRANSISTOR

Q701	8-729-322-78	TRANSISTOR 2SC2278
Q702	8-729-322-78	TRANSISTOR 2SC2278
Q703	8-729-322-78	TRANSISTOR 2SC2278

RESISTOR

R701	1-247-815-00	CARBON	220	5%	1/6W	
R702	1-247-815-00	CARBON	220	5%	1/6W	
R703	1-247-815-00	CARBON	220	5%	1/6W	
R704	1-247-853-00	CARBON	8.2K	5%	1/6W	
R705	1-247-853-00	CARBON	8.2K	5%	1/6W	
R706	1-247-853-00	CARBON	8.2K	5%	1/6W	
R707	1-247-823-00	CARBON	470	5%	1/6W	
R708	1-247-821-00	CARBON	390	5%	1/6W	
R709	1-247-821-00	CARBON	390	5%	1/6W	
R710	1-206-692-00	METAL OXIDE	15K	5%	2W	F

Ref.No.	Part No.	Description				Remark
R711	1-206-692-00	METAL OXIDE	15K	5%	2W	F
R712	1-206-692-00	METAL OXIDE	15K	5%	2W	F
R713	1-202-824-00	SOLID	3.3K		1/2W	
R714	1-202-824-00	SOLID	3.3K		1/2W	
R715	1-202-824-00	SOLID	3.3K		1/2W	
R716	1-247-847-00	CARBON	4.7K	5%	1/6W	
R717	1-247-847-00	CARBON	4.7K	5%	1/6W	
R718	1-247-847-00	CARBON	4.7K	5%	1/6W	
R751	1-202-847-00	SOLID	560K		1/2W	
R752	1-202-847-00	SOLID	560K		1/2W	
R755	1-202-847-00	SOLID	560K		1/2W	
R756	1-202-719-00	SOLID	1M	10%	1/2W	
R757	1-202-824-00	SOLID	3.3K		1/2W	
R758	1-202-838-00	SOLID	100K		1/2W	

VARIABLE RESISTOR

RV701	1-228-718-00	RES, ADJ, CERAMIC CARBON 330
RV702	1-228-718-00	RES, ADJ, CERAMIC CARBON 330
RV703	1-228-723-00	RES, ADJ, CERAMIC CARBON 4.7K
RV704	1-228-723-00	RES, ADJ, CERAMIC CARBON 4.7K
RV705	1-228-723-00	RES, ADJ, CERAMIC CARBON 4.7K
RV751	1-226-063-00	RES, ADJ, CARBON 2.2M
RV752	1-226-114-00	RES, ADJ, METAL GLAZE 2.2M
RV753	⚠.1-230-164-00	RES, ADJ, METAL GLAZE 55M

SPARK GAP

SG701	1-519-063-XX	DISCHARGING GAP
SG702	1-519-063-XX	DISCHARGING GAP
SG703	1-519-063-XX	DISCHARGING GAP

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♠:1-610-108-00 Z BOARD
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JACK

J901	1-507-864-00	JACK, EARPHONE

****

MISCELLANEOUS

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	⚠.1-426-145-00	COIL, DEGAUSSING
	⚠.1-451-230-00	DEFLECTION YOKE (SY-125)
	1-452-032-00	MAGNET, DISK; 10mmφ
	1-452-094-00	MAGNET, ROTATABLE DISK, 15mm φ
	1-452-277-00	MAGNET, BMC
	1-501-152-00	ROD ANTENNA, TYPE B
	⚠.1-536-683-00	CONNECTOR, COAXIAL ANTENNA
	⚠.1-551-427-11	CORD, POWER, EULO PLUG
	♠:1-555-405-00	CABLE, P-P

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

Ref.No.	Part No.	Description	Remark
	⚠.1-556-054-00	ANT PLUG ASSY	
C901	1-161-491-00	CAP, CERAMIC 470PF	
S901	⚠.1-553-225-00	SWITCH, PUSH	
SP901	1-503-239-00	SPEAKER	
V901	⚠.8-735-550-05	CRT (A34JBU00X)	

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ACCESSORIES AND PACKING MATERIALS

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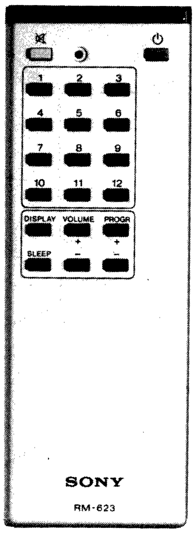
Part No.	Description	Remark
A-1470-638-A	COMMANDER ASSY (RM-623)	
4-491-714-01	SCHEMATIC DIAGRAM	
1-504-034-32	EARPHONE, MAGNETIC (ME-20B)	
1-508-955-00	PLUG, ANTENNA	
3-701-631-00	BAG, POLYETHYLENE	
4-493-832-41	MANUAL, INSTRUCTION	
4-314-534-00	BAG, POLYETHYLENE	
4-366-412-00	SPACER	
4-366-512-00	CUSHION (UPPER) (ASSY)	
4-366-513-00	CUSHION (LOWER) (ASSY)	
4-366-553-00	INDIVIDUAL CARTON	

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

RM-623

SERVICE MANUAL


1
2
3
4
5
6
7
8
9
10
11
12
DISPLAY
VOLUME
PROGR
+
+
SLEEP
–
–
SONY
RM-623

SPECIFICATIONS

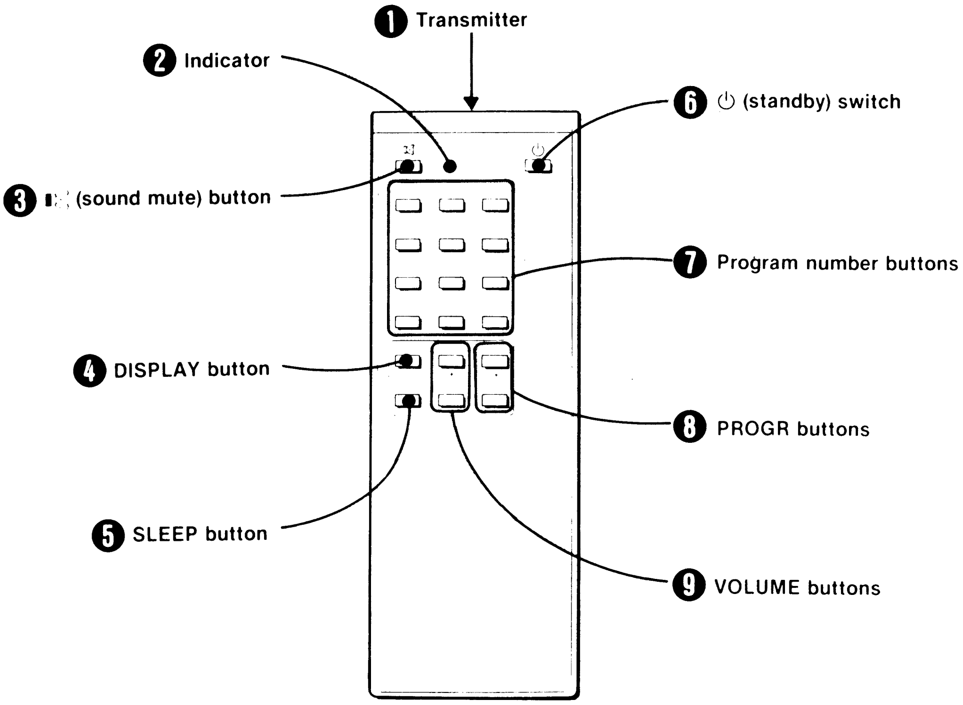
Remote control system	Infrared control
Power requirements	3 V dc 2 IEC designation R6 batteries (size AA)
Dimensions	Approx. 55 × 150 × 18 mm (w/h/d)
Weight	Approx. 130 g

MICROFILM

REMOTE COMMANDER

SONY®

FUNCTION OF BUTTONS ON THE REMOTE COMMANDER



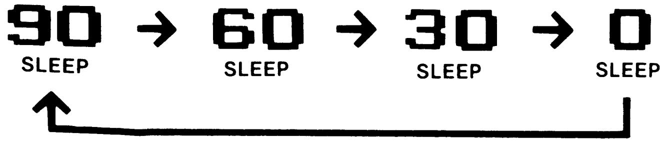
❶ Transmitter
Point toward the remote control detector on the TV.

❷ Indicator
Lights when the Remote Commander is operating. If the indicator does not light when a function button is pressed, the batteries need to be replaced.

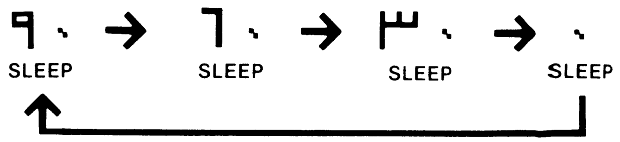
❸ ▮◁ (sound mute) button
To mute the sound (to answer the telephone, for instance), press this button. To restore the sound, press this button again.

❹ DISPLAY button
Press to extinguish the program number or the Hit indication on the screen. (If you press the program number buttons on the Commander, the PROGR buttons or the Hit button on the TV in this case, each indication appears on the screen and disappears in a few seconds.) To recall the indication, press this button again. (This button is not effective on the color system indication or in the SLEEP mode.)

❺ SLEEP button
Each time you press this button, the following indication will appear for a few seconds.



90, 60 and 30 mean respectively that the TV is turned off (standby mode) in approximately 90, 60 and 30 minutes automatically. 0 means the cancel of the sleep function. To restore the power after the TV is turned off automatically, press the program number button on the Remote Commander. To turn off the TV completely, press the ⏻ switch on the TV. The STANDBY lamp will go out.
The SLEEP indication can be also displayed with the ARABIC switch in the presetting compartment of the TV.



While you view the signals from the Hit (RF) socket, the SLEEP indication cannot be changed with the ARABIC switch.
- When the NTSC-recorded tape is played back, the indication may be wrong.

❻ ⏻ (standby) switch
To turn off the TV, press this switch. The TV will enter into the standby mode and the ⏻ indicator on the TV will light.

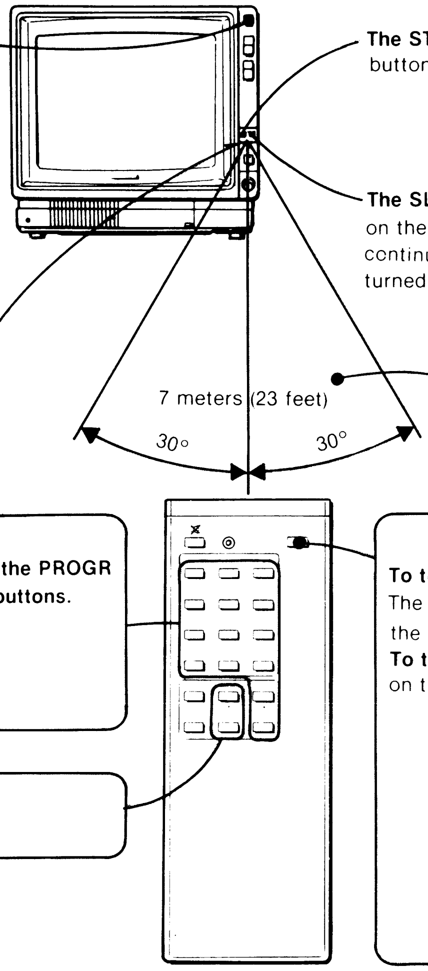
❼ Program number buttons
By simply pressing the desired button, you can turn on the TV and select the program directly when the TV has been turned off with the ⏻ switch on the Commander.

❽ PROGR buttons
Press the + or − button to select the preset programs respectively higher or lower.

❾ VOLUME buttons
Press the + or − button to regulate the volume.

OPERATION

1 **Turn on the power with the ⏼ switch.**
Once the TV has been turned on with this switch, you can turn it off with the ⏻ switch (standby mode) and on with the program number buttons on the Commander.



The STANDBY lamp blinks when any function button on the Remote Commander is pressed.

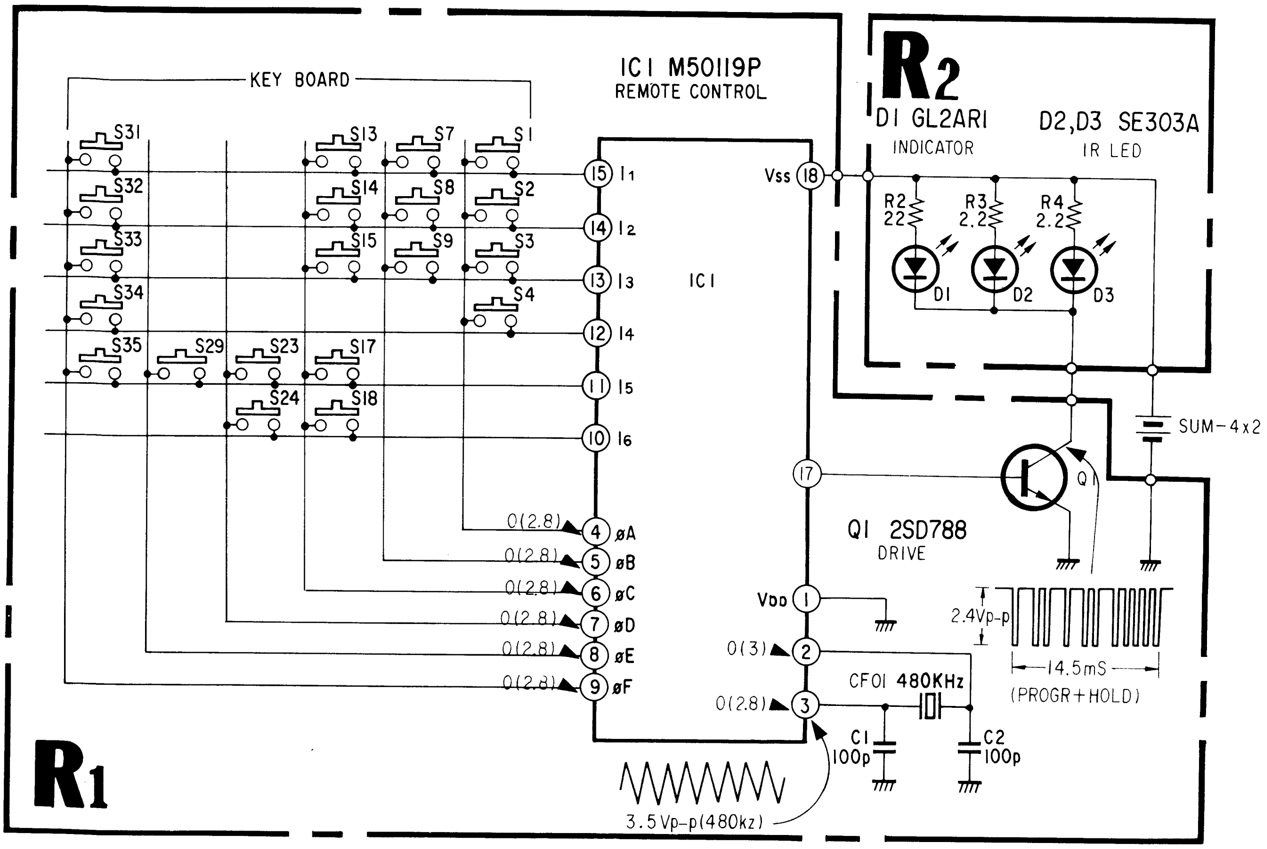
The SLEEP lamp lights when the SLEEP button on the Rempte Commander is pressed. It lights continuously until the TV is automatically turned off.

2 **Select the desired program with the PROGR buttons or the program number buttons.**

3 **Adjust the volume.**

To turn off the TV, press this button. The STANDBY lamp will light steadily and the TV will enter into the standby mode.
To turn it off completely, press the ⏼ switch on the TV. The STANDBY lamp will go out.

SCHEMATIC DIAGRAM



KEY BOARD
S31
S32
S33
S34
S35
S29
S23
S24
S17
S18
S13
S14
S15
S7
S8
S9
S1
S2
S3
S4
IC1 M50119P
REMOTE CONTROL
IC1
15 I1
14 I2
13 I3
12 I4
11 I5
10 I6
0(2.8) 4 øA
0(2.8) 5 øB
0(2.8) 6 øC
0(2.8) 7 øD
0(2.8) 8 øE
0(2.8) 9 øF
Vss 18
17
VDD 1
0(3) 2
0(2.8) 3
CF01 480KHz
C1 100p
C2 100p
3.5 Vp-p(480kz)
R1
R2
D1 GL2AR1
INDICATOR
D2,D3 SE303A
IR LED
R2 22
R3 2.2
R4 2.2
D1
D2
D3
SUM-4x2
Q1
Q1 2SD788
DRIVE
2.4Vp-p
14.5mS
(PROGR+HOLD)

KEY MATRIX

	øA	øB	øC	øD	øE	øF
I1	S1 CH-1	S7 CH-2	S13 CH-3	S19	S25	S31 🔇
I2	S2 CH-4	S8 CH-5	S14 CH-6	S20	S26	S32 ⏻
I3	S3 CH-7	S9 CH-8	S15 CH-9	S21	S27	S33 CH-10
I4	S4 CH-12	S10	S16	S22	S28	S34 CH-11
I5	S5	S11	S17 VOLUME +	S23 PROGR +	S29 SLEEP	S35 DISPLYAY
I6	S6	S12	S18 VOLUME−	S24 PROGR −	S30	S36

KV-1432ME3
RM-623

SONY
SERVICE MANUAL

Chassis No. SCC-501B-A
September, 1983

SUPPLEMENT-1

SUBJECT ADJUSTMENT

File this supplement-1 with the service manual.

SETUP ADJUSTMENTS

1-1. BEAM LANDING 2
1-2. CONVERGENCE 3
1-3. WHITE BALANCE 3
1-4. FOCUS 4
1-5. CUT-OFF (G2) 4

CIRCUIT ADJUSTMENTS

2-1. F BOARD ADJUSTMENT 6
2-2. A BOARD ADJUSTMENT 6

MICROFILM

CTV

SECTION 1
SETUP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

Controls and switches should be set as follows unless otherwise noted:

PICTURE control . . . . . .maximum
BRIGHT control. . . . . . .maximum
(fully clockwise)

Perform the adjustments in order as follows:

1. Beam Landing
2. Convergence
3. White Balance
4. Focus
5. CUT-OFF (G2)

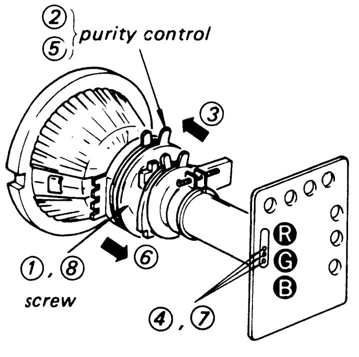
Note: Test Equipment Required.
1. Color-bar/Pattern Generator
2. Degausser

1-1. BEAM LANDING

Preparation:

- Feed in the white pattern.
- Before starting, degauss the entire screen.

1. Loosen deflection yoke screw.
2. Adjust purity control as shown in Fig. 1-1.
3. Slide deflection yoke as far forward as it will go.
4. Disconnect leads Ⓑ and Ⓖ on the C board.
5. Adjust purity control to center vertical red band as shown in Fig. 1-2.
6. Slide deflection yoke back for a uniform red screen.
7. Check green and blue rasters for uniformity by performing the same way as steps 4, 5 and 6.
   To get a uniform green screen,
   connect lead Ⓖ on the C board and disconnect leads Ⓡ and Ⓑ .
   To get a uniform blue screen,
   connect lead Ⓑ on the C board and disconnect leads Ⓡ and Ⓖ .
   After these checks, connect the leads Ⓡ , Ⓖ and Ⓑ .
8. Tighten the deflection yoke screw.
9. Check if mislanding appears at corners a–d as shown in Fig. 1-3. If mislanding is observed, correct it as shown in Fig. 1-3.
10. Confirm that beam landing is correct when the receiver is faced in all directions.


②
⑤ purity control
③
①, ⑧
screw
⑥
④, ⑦
Ⓡ
Ⓖ
Ⓑ

Note: *The circled numbers (① – ⑨) show above steps.*

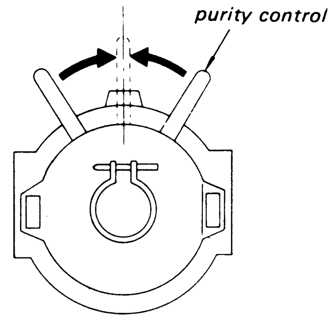

purity control

Fig. 1-1.

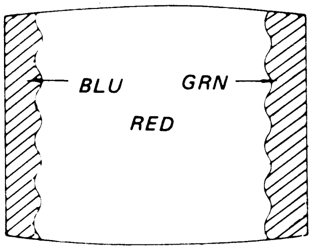


Fig. 1-2.

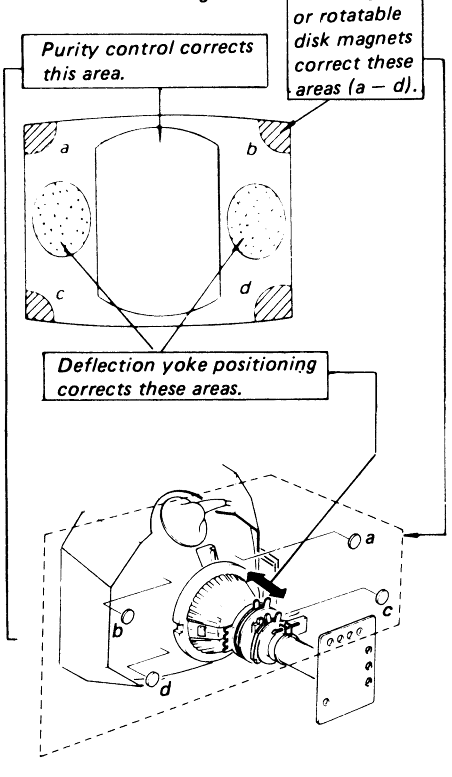

Disk magnets or rotatable disk magnets correct these areas (a – d).
Purity control corrects this area.
a
b
c
d
Deflection yoke positioning corrects these areas.
a
b
c
d

Fig. 1-3.

1-2. CONVERGENCE

Preparation:

- Before starting, perform FOCUS, H. SIZE and V. SIZE adjustments.
- Set BRIGHT control to fully counterclockwise.
- Feed in the dot pattern.

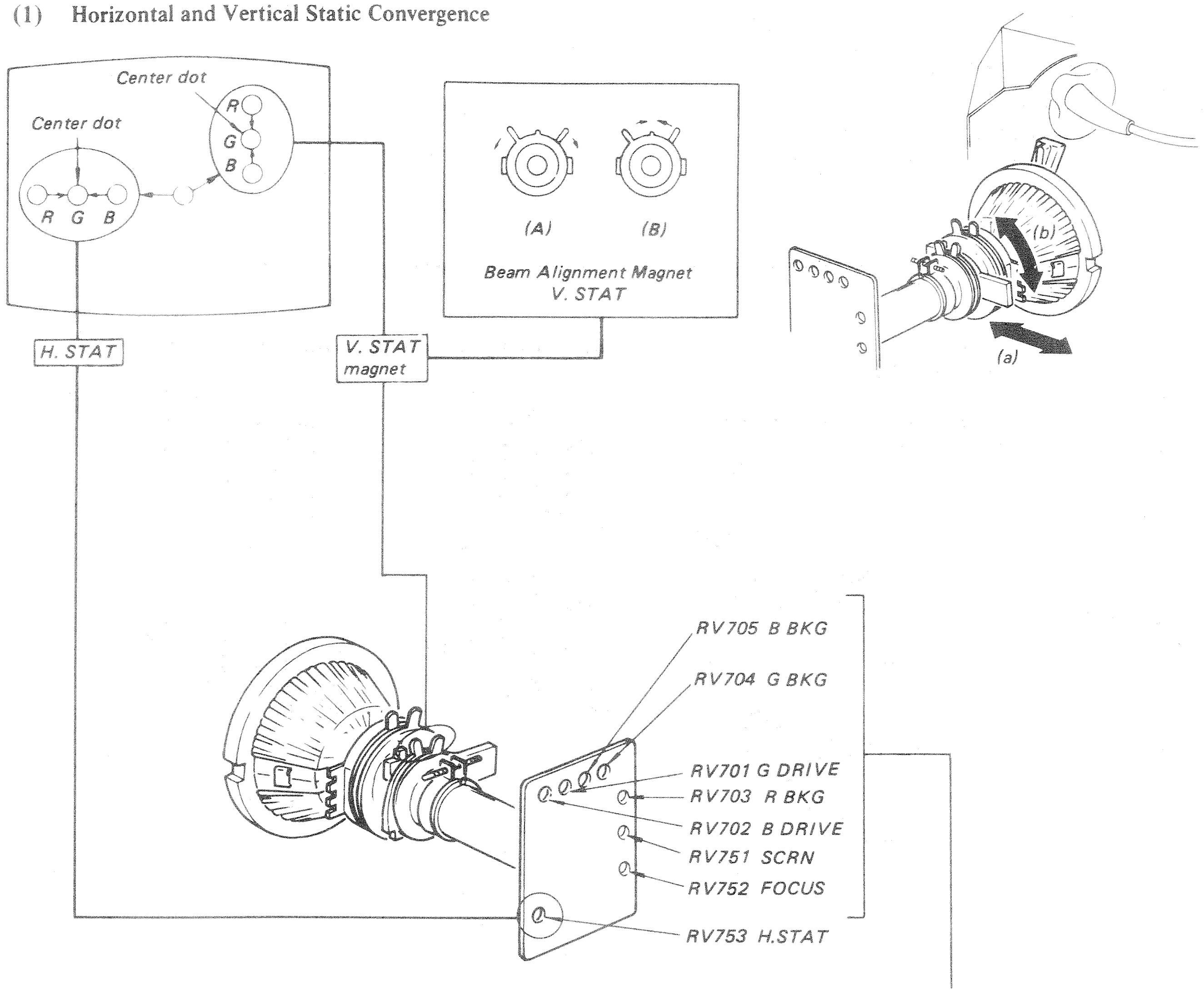
(1) Horizontal and Vertical Static Convergence

If blue dot does not coincide with red and green dots, perform following steps.

Move BMC magnet (a) to correct insufficient H. static convergence.

Rotate BMC magnet (b) to correct insufficient V. static convergence.

In either case, repeat Beam Landing Adjustment.


Center dot
Center dot
R
G
B
R G B
H. STAT
V. STAT magnet
(A)
(B)
Beam Alignment Magnet
V. STAT
(b)
(a)
RV705 B BKG
RV704 G BKG
RV701 G DRIVE
RV703 R BKG
RV702 B DRIVE
RV751 SCRN
RV752 FOCUS
RV753 H.STAT

1-3. WHITE BALANCE

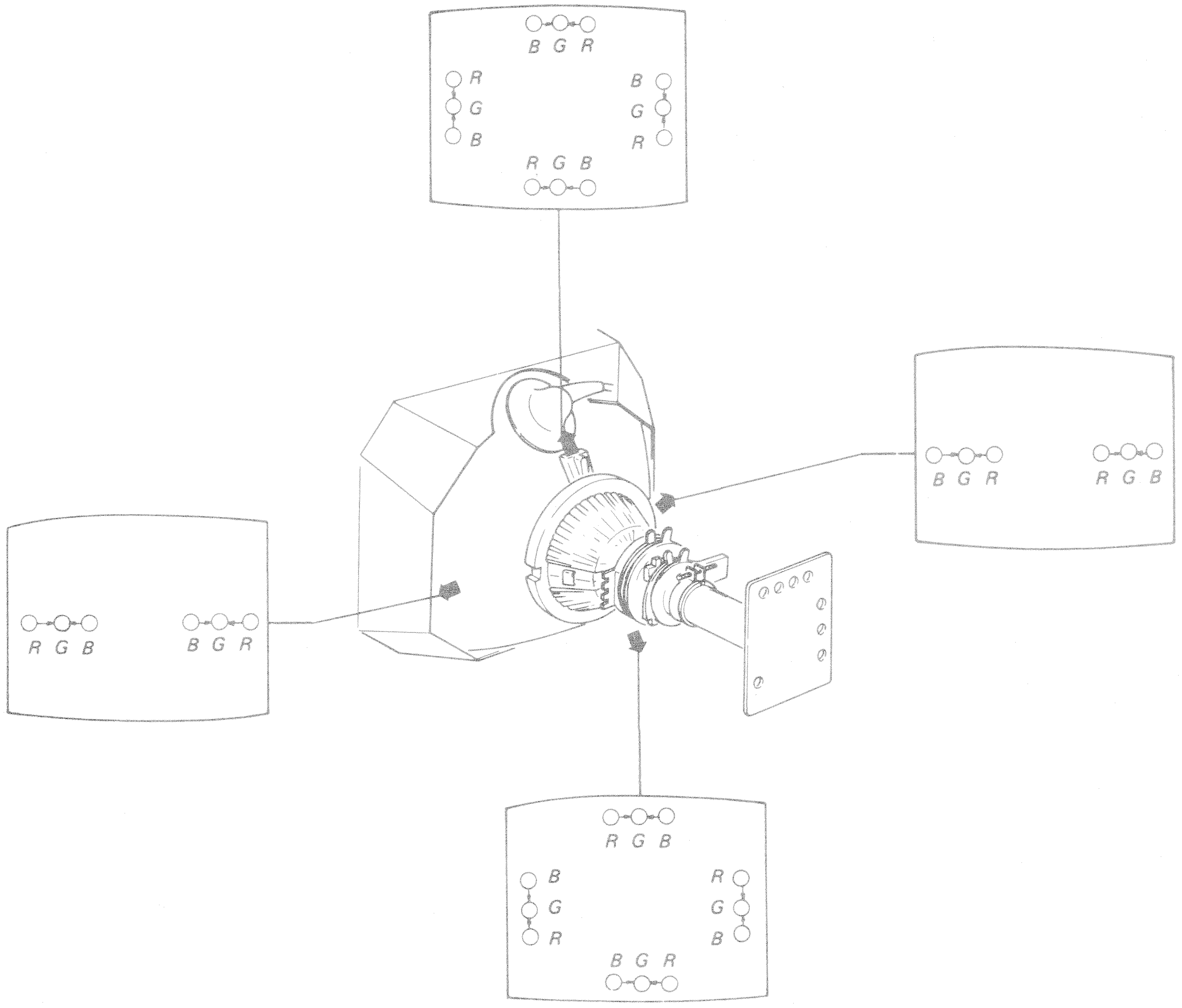
1. In put a color-bar signal.
2. Turn PICTURE and BRIGHT controls fully counterclockwise.
3. Set RV703 (R.BKG), RV704 (G.BKG) and RV705 (B. BKG) to counterclockwise.
4. Turn RV701 (G.DRIVE) and RV702 (B. DRIVE) to mechanical center.
5. Turn color VR controls fully counterclockwise.
6. Turn RV751 (SCRN) slowly to obtain a just before the retrace disappears.
7. Adjust the other three BKG controls for best white balance (neutralgray).
8. Turn PICTURE and BRIGHT controls fully clockwise. Observe the screen and adjust the DRIVE controls for best white balance.

(2) Dynamic Convergence Adjustment

Preparation:

- Before starting, perform Horizontal and Vertical Static Convergence Adjustment.

1. Loosen deflection yoke screw.
2. Remove deflection yoke spacers.
3. Move the deflection yoke for best convergence as shown below.
4. Tighten the deflection yoke screw.
5. Install the deflection yoke spacers.


B G R
R
G
B
B
G
R
R G B
B G R
R G B
R G B
B G R
R G B
B
G
R
R
G
B
B G R

1-4. FOCUS

1. Receive a broadcast.
2. Set for optimun picture with PIC VR and BRT VR.
3. Adjust for horizontal and vertical sync perfectly.
4. Adjust with the focus control for best focus over the entire picture. (The focus control knob is on the C board focus VR.)

1-5. CUT-OFF (G2)

1. In put a dot's pattern signal.
2. Supply 160V dc to (R), (G), (B) cathode.
3. Turn RV751 (SCRN) slowly to obtain a just before the retrace disappears.

SECTION 2
CIRCUIT ADJUSTMENTS

Note: **(1) TEST EQUIPMENT REQUIRED**

1. Oscilloscope
2. Voltmeter (VOM)
3. Color-bar/pattern generator
4. Television multiplex modulator

(2) INPUT SIGNAL

When making these adjustments, supply a cross-hatch, a color-bar, or an off-air signal.

(3) CONTROL SETTINGS

Controls and switch should be set as follows when making checks and adjustments unless otherwise noted.

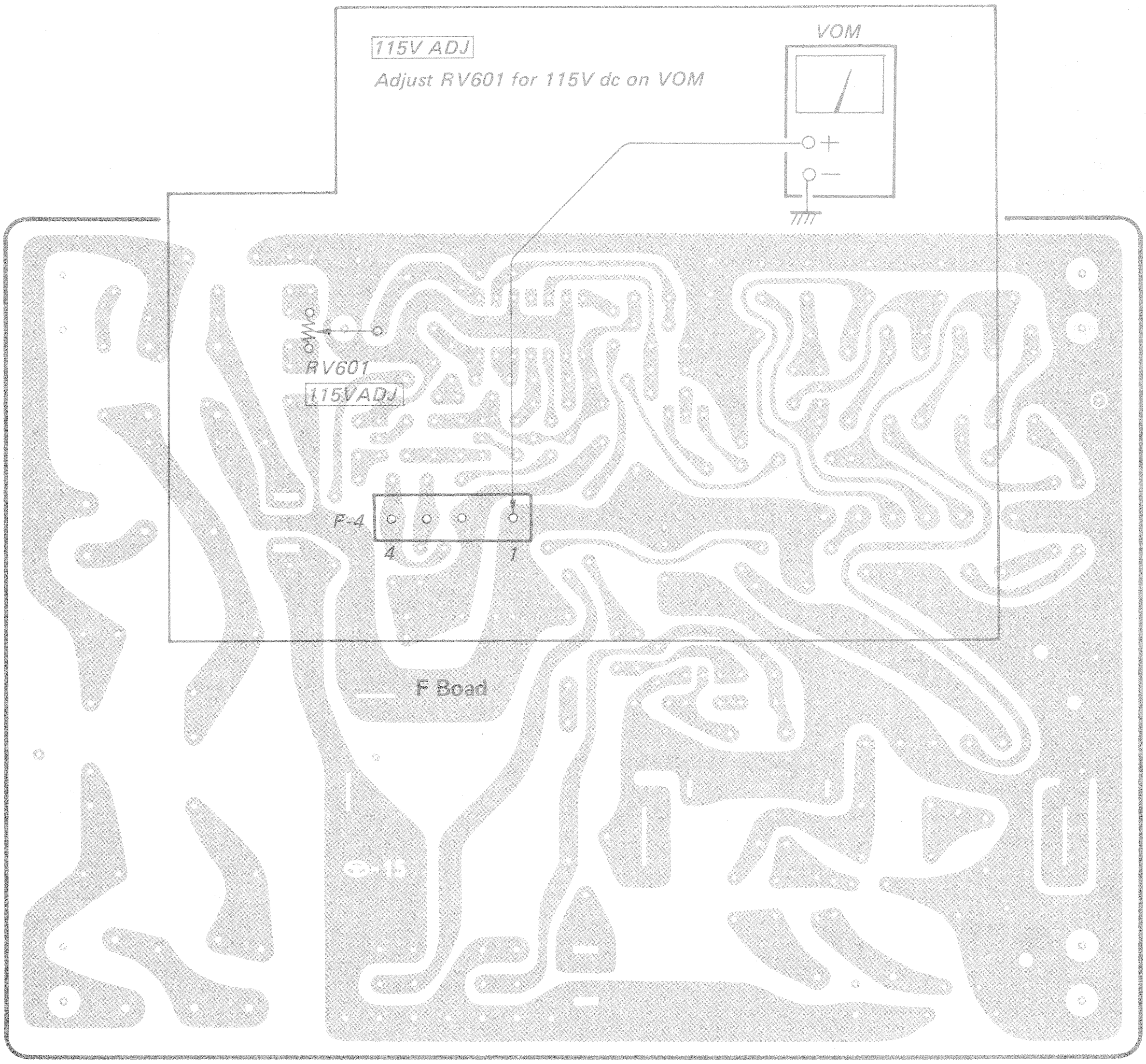
◑ (picture) control }
SHARPNESS control } Set for best picture.
◍ (color) control }
BRIGHT control . .mechanical center
AFT switch . . . . .ON

(4) These adjustment should be performed with rated power supply voltage, unless otherwise noted.

(5) CIRCUIT ADJUSTMENTS

Adjustment	Circuit Board	Page
115V ADJ	F	5
H. FREQ V. SIZE and V. SENT ACC PAL MATRIX CW PHASE A.P.C. SECAM COLOR	A	6,7,8

2-1. F BOARD ADJUSTMENT

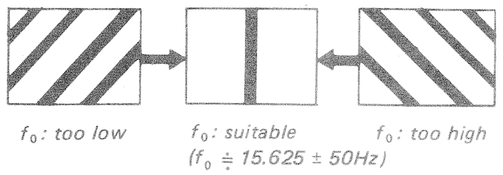

115V ADJ

Adjust RV601 for 115V dc on VOM

2-2. A BOARD ADJUSTMENTS

H.FREQ ADJUSTMENT

1. Input a SPECIAL colar bar signal.
2. Set the PICTURE control at MIN and BRT control at MAX and COLOR control at NORMAL.
3. Connect a 33µ/16V chemical capacitor between IC501 pin ① and ground.
4. Adjust RV501 for the image shown below.


f_0: too low
f_0: suitable
(f_0 ≒ 15.625 ± 50Hz)
f_0: too high

5. Remove a 33µ/16V.
6. Change tuner channel and confirm that picture does not change.

V.SIZE and V.CENT ADJUSTMENT

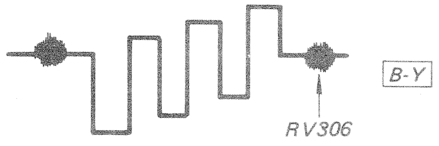
1. Input a SPECIAL colar bar signal.
2. Set the PICTURE control at 80% and BRT control and COLOR control NORMAL.
3. Adjust the best vertical size and position.

ACC

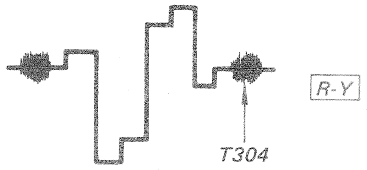
1. Recieve the strong off air signal.
2. Set the COLOR and HUE controls to the mechanical center.
3. Set the PICTURE and BRIGHT controls for the suitable picture.
4. Adjust RV305 for suitable color intensity.
5. Confirm the color intensity does not change on other channels.

PAL MATRIX ADJUSTMENT

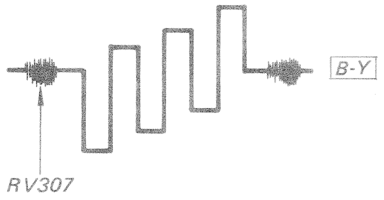
1. Input the PAL color barsignal.
2. Set the PICTURE control at 80%, BRT control and COLOR control at 50%.
3. Observe the A-3 ④ (Red) output and ⑥ (Blue) output waveforms shown in the osilloscope.
4. Turn the RV306 and adjust so that the right ANTI-PAL of B-Y output waveform is MIN.



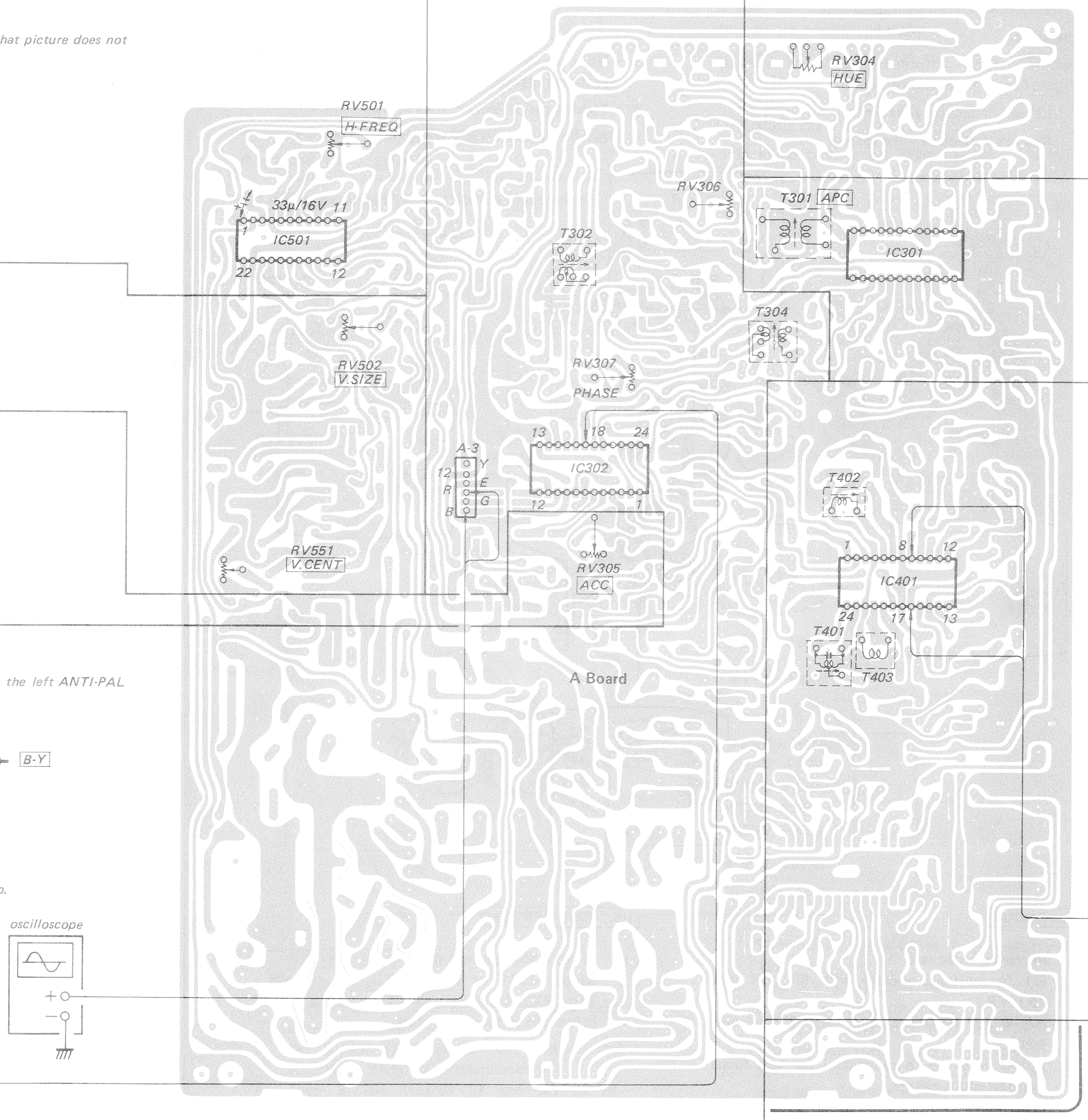
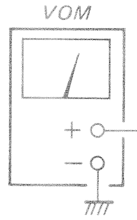
5. Turn the T302 (DAT) core and adjust so that the waveforms as shown is best.
6. Turn the T304 core and adjust so that the right anti-pal of R-Y output waveform is MIN.



7. Turn the RV307 and adjust so that the left ANTI-PAL of blue output waveforms is MIN.



8. Confirm that IC302 pin ⑱ is 0.4V p-p.



RV304
HUE
RV501
H-FREQ
RV306
T301
APC
33µ/16V
11
1
IC501
22
12
T302
IC301
T304
RV502
V.SIZE
RV307
PHASE
13
18
24
A-3
Y
E
G
12
R
B
IC302
12
1
T402
1
8
12
RV551
V.CENT
RV305
ACC
IC401
24
17
13
T401
T403
A Board
oscilloscope
VOM
+
−

CW PHASE ADJUSTMENT

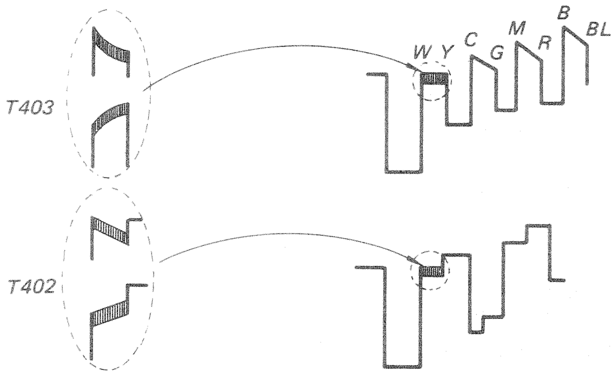
1. *Input the SPECIAL color barsignal.*
2. *Set the PICTURE control at 80% and BRT control and COLOR control at center.*
3. *Adjust RV304 so that the color in the ANTI-PAL signal of the picture almost disappears.*
4. *Input the NTSC color bar, turn the HUE control and confirm that there are no abnormalities.*
   con

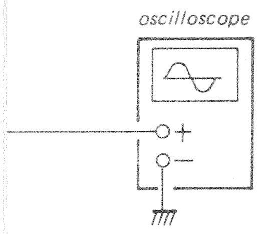
A.P.C. ADJUSTMENT

1. *Input the PAL color-barsignal.*
2. *Short-circuit IC302 pin①and ground.*
3. *Supply 4Vdc to IC302 pin②.*
4. *Short circuit IC301 pin⑨and ⑩*
5. *Adjust T301 to obtain the stable color sync.*

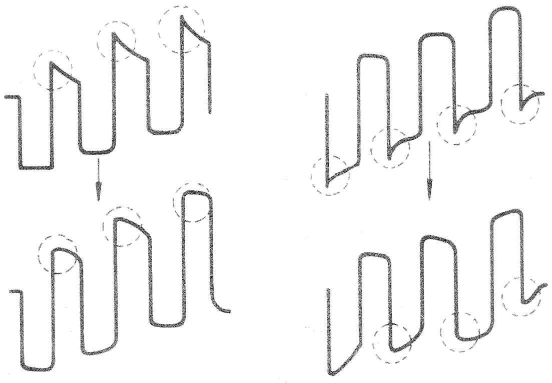
SECAM COLOR ADJUSTMENT

1. *Recieve the SECAM color barsignal.*
2. *PICTURE 80%. Turn the BRIGHT to center click and the color to mechanical center.*
3. *Observe the IC401 pin ⑰ (B-Y) output and pin⑧(R-Y) output waveforms shown in the osilloscope.*
4. *Adjust T402, T403 so that the white level is flat.*



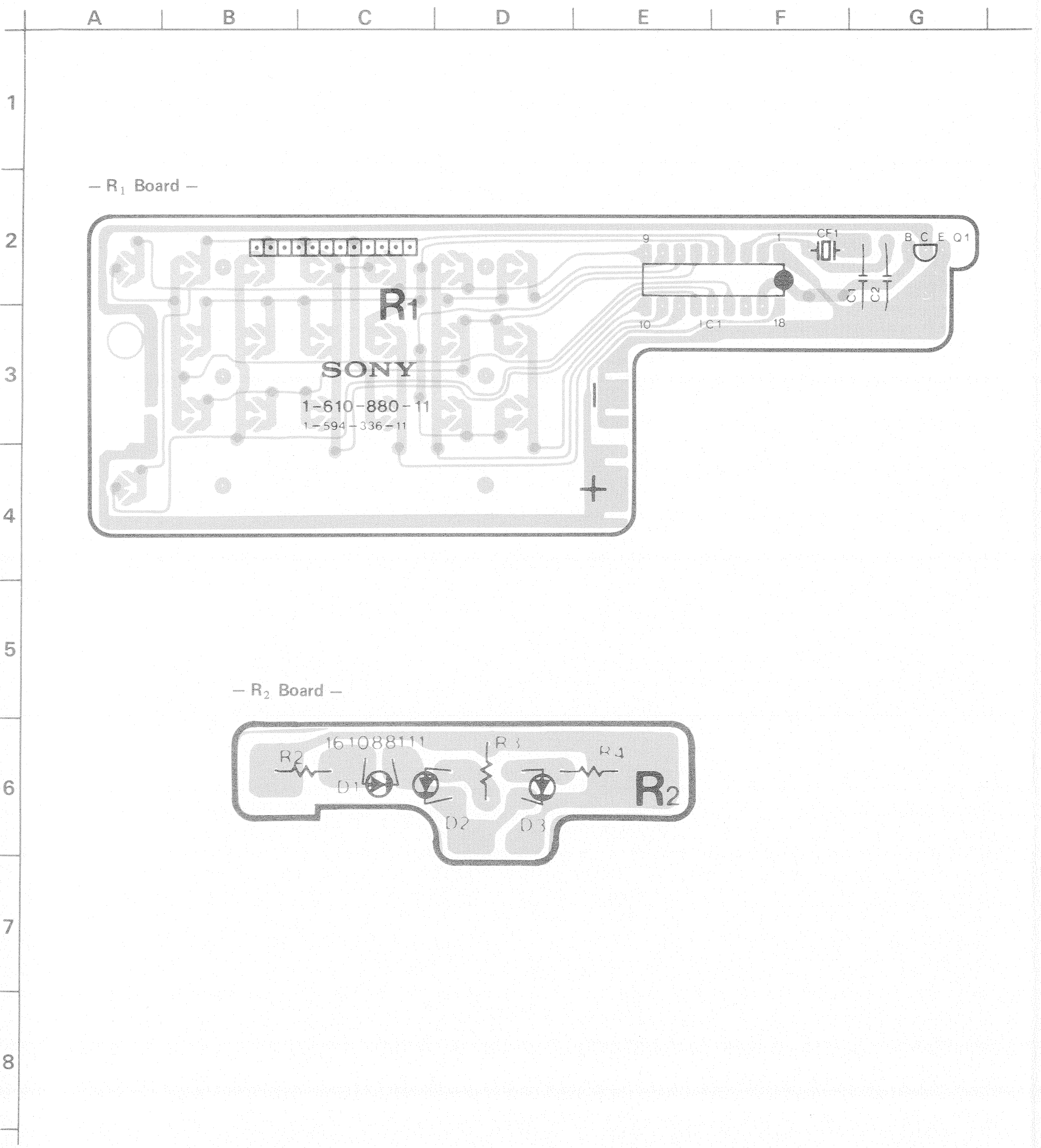


5. *Adjust T401 so that the normal waveform.*



MOUNTING DIAGRAMS

– Conductor Side –

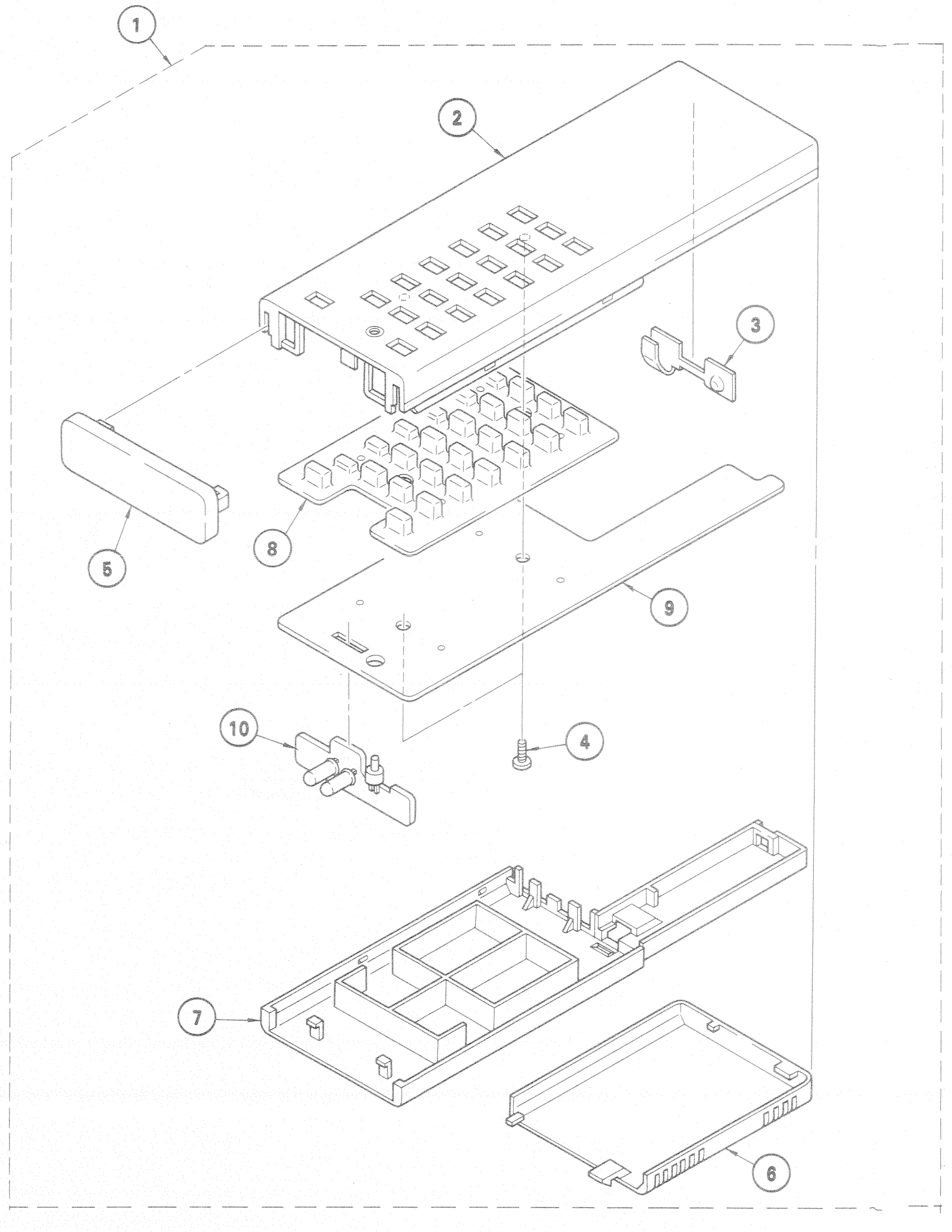

A
B
C
D
E
F
G
1
2
3
4
5
6
7
8
– R₁ Board –
9
1
CF1
B C E Q1
C1
C2
10
IC1
18
R1
SONY
1-610-880-11
1-594-336-11
+
– R₂ Board –
161088111
R2
R3
R4
D1
D2
D3
R2

NOTE:

- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " ● " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

EXPLODED VIEW


1
2
3
4
5
6
7
8
9
10

No.	Part No.	Description	Remark
1	A-1470-638-A	COMMANDER ASSY (RM-623)	2-10
2	X-4366-506-0	CASE (UPPER) ASSY, COMMANDER	
3	4-356-344-00	TERMINAL (A), BATTERY	
4	4-356-741-00	SCREW, TAPPING (BIND 2X5)	
5	4-362-018-00	PANEL, FRONT, COMMANDER	
6	4-362-021-00	COVER, BATTERY	
7	4-362-023-00	CASE (LOWER), COMMANDER	
8	4-366-537-00	SHEET, RUBBER	
9	●:1-610-880-00	R1 BOARD	
10	●:1-610-881-00	R2 BOARD	

ELECTRICAL PARTS LIST

NOTE:

The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

When indicating parts by reference number, please include the board name.

- Items marked " ● " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.

CAPACITORS
- MF : μF, PF : μμF

RESISTORS
- All resistors are in ohms
- F : nonflammable

COILS
- MMH : mH, UH : μH

Ref.No.	Part No.	Description	Remark
	●:1-610-880-00	R1 BOARD ********	
	●:4-362-019-00	TERMINAL (C), BATTERY	
	●:4-362-020-00	TERMINAL (B), BATTERY	
		CAPACITOR	
C01	1-161-271-00	CERAMIC 100PF 5% 50V	
C02	1-161-271-00	CERAMIC 100PF 5% 50V	
		FILTER	
CF01	1-527-476-00	OSCILLATOR, CERAMIC	
		IC	
IC01	8-759-600-07	IC M50119P	
		TRANSISTOR	
Q01	8-791-773-32	TRANSISTOR 2SD773-4	

****

Ref.No.	Part No.	Description	Remark
	●:1-610-881-00	R2 BOARD ********	
		DIODE	
D01	8-719-900-23	DIODE GL-2AR1	
LED02	8-719-107-82	DIODE SE303AY	
LED03	8-719-107-82	DIODE SE303AY	
		RESISTOR	
R02	1-247-791-00	CARBON 22 5% 1/6W	
R03	1-247-767-00	CARBON 2.2 5% 1/6W	
R04	1-247-767-00	CARBON 2.2 5% 1/6W	

Sony Corporation

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